

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



Glyclean™ D57E

Version	Revision Date:	SDS Number:	Date of last issue: 11.08.2023
3.1	30.10.2023	10820629-00008	Date of first issue: 22.07.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	Glyclean™ D57E
SDS-Identcode	:	130000149485
Unique Formula Identifier (UFI)	:	5V9D-4Y20-GR20-45SG

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture	:	Cleaning, Disinfectants, Industrial use For further information see Annex - Exposure scenario.
Recommended restrictions on use	:	For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company	:	PureTech Scientific LLC (Appointed Only Representative: Blue Frog Scientific EURL) 901 W. DuPont Ave Belle, WV 25015 United States of America (USA)
Telephone	:	1-877-215-5999
Telefax	:	1-304-357-1364
E-mail address of person responsible for the SDS	:	sds-support@puretechscientific.com

1.4 Emergency telephone number

+1 760 476 3962 access code 336264

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Supplemental Hazard Statements : EUH071 Corrosive to the respiratory tract.

Precautionary statements : **Prevention:**
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Storage:

P405 Store locked up.

Hazardous components which must be listed on the label:

Glycolic acid

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Glycolic acid	79-14-1 201-180-5 01-2119485579-17	Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 EUH071 Acute toxicity estimate Acute inhalation toxicity (dust/mist): 3.6 mg/l	>= 50 - < 70
Formic acid	64-18-6 200-579-1 607-001-00-0	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Corr. 1A; H314 Eye Dam. 1; H318 EUH071 specific concentration limit Skin Corr. 1A; H314 >= 90 % Skin Corr. 1B; H314 10 - < 90 % Skin Irrit. 2; H315 2 - < 10 % Eye Irrit. 2; H319 2 - < 10 % EUH071 >= 10 % Acute toxicity estimate Acute oral toxicity: 730 mg/kg Acute inhalation toxicity (vapour): 7.85 mg/l	>= 0.1 - < 1

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|----------------------------|--|
| General advice | : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice. |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). |
| If inhaled | : If inhaled, remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical attention immediately. |
| In case of skin contact | : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention immediately.
Wash clothing before reuse.
Thoroughly clean shoes before reuse. |
| In case of eye contact | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately. |
| If swallowed | : If swallowed, DO NOT induce vomiting.
If vomiting occurs have person lean forward.
Call a physician or poison control centre immediately.
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|-------|--|
| Risks | : Causes serious eye damage.
Causes severe burns.
Corrosive to the respiratory tract.

Causes digestive tract burns. |
|-------|--|

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|---|
| Treatment | : Treat symptomatically and supportively. |
|-----------|---|

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|------------------------------|---------------|
| Suitable extinguishing media | : Water spray |
|------------------------------|---------------|

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Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.

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Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- | | | |
|-------------------------|---|---|
| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : | If sufficient ventilation is unavailable, use with local exhaust ventilation. |
| Advice on safe handling | : | Do not get on skin or clothing.
Do not breathe vapours or spray mist.
Do not swallow.
Do not get in eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep container tightly closed.
Take care to prevent spills, waste and minimize release to the environment.

Do not breathe decomposition products. |
| Hygiene measures | : | If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. |

7.2 Conditions for safe storage, including any incompatibilities

- | | | |
|---|---|--|
| Requirements for storage areas and containers | : | Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.

Reacts with many metals to liberate hydrogen gas which can form explosive mixtures with air. Hydrogen, a highly flammable gas, can accumulate to explosive concentrations inside drums, or any types of steel containers or tanks upon storage. |
| Advice on common storage | : | Do not store with the following product types:
Strong oxidizing agents
Self-reactive substances and mixtures |

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Organic peroxides
Explosives

7.3 Specific end use(s)

Specific use(s) : Refer to the label and/or leaflet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formic acid	64-18-6	TWA	5 ppm 9 mg/m ³	2006/15/EC
Further information: Indicative				
		OELV - 8 hrs (TWA)	5 ppm 9 mg/m ³	IE OEL

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Carbon dioxide	124-38-9	TWA	5,000 ppm 9,000 mg/m ³	2006/15/EC
Further information: Indicative				
		OELV - 8 hrs (TWA)	5,000 ppm 9,000 mg/m ³	IE OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Glycolic acid	Workers	Inhalation	Acute systemic effects	9.2 mg/m ³
	Workers	Inhalation	Acute local effects	9.2 mg/m ³
	Workers	Skin contact	Long-term systemic effects	57.69 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	10.56 mg/m ³
	Workers	Inhalation	Long-term local effects	1.53 mg/m ³
	Consumers	Inhalation	Acute systemic effects	2.3 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	28.85 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.75 mg/kg bw/day
	Consumers	Inhalation	Acute local effects	2.3 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	2.6 mg/m ³

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Formic acid	Workers	Inhalation	Acute local effects	19 mg/m3
	Workers	Inhalation	Long-term local effects	9.5 mg/m3
	Consumers	Inhalation	Acute local effects	9.5 mg/m3
	Consumers	Inhalation	Long-term local effects	3 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Glycolic acid	Fresh water	0.0312 mg/l
	Freshwater - intermittent	0.312 mg/l
	Marine water	0.0031 mg/l
	Marine sediment	0.0115 mg/kg dry weight (d.w.)
	Fresh water sediment	0.115 mg/kg dry weight (d.w.)
	Soil	0.007 mg/kg dry weight (d.w.)
	Sewage treatment plant	7 mg/l
Formic acid	Oral (Secondary Poisoning)	16.66 mg/kg food
	Fresh water	2 mg/l
	Marine water	0.2 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	7.2 mg/l
	Fresh water sediment	13.4 mg/kg
	Marine sediment	1.34 mg/kg
	Soil	1.5 mg/kg

8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10).
Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield
Equipment should conform to I.S. EN 166

Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the

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end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Equipment should conform to I.S. EN 14387

Filter type : Inorganic gas/vapour type (B)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: amber
Odour	: of burnt sugar
Odour Threshold	: No data available
Melting point/freezing point	: -5 °C
Initial boiling point and boiling range	: No data available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: > 100 °C

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Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : 0.1 (25 °C)

Viscosity
Viscosity, kinematic : No data available

Solubility(ies)
Water solubility : > 300 g/l (22 °C)
(for a component of this mixture)

Partition coefficient: n-
octanol/water : Not applicable

Vapour pressure : No data available

Density : 1.17 g/cm³

Relative vapour density : No data available

Particle characteristics
Particle size : Not applicable

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

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10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.
Hazardous decomposition products will be formed at elevated temperatures.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Bases

10.6 Hazardous decomposition products

Thermal decomposition : Carbon dioxide

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:

Glycolic acid:

Acute oral toxicity : LD50 (Rat): 2,040 mg/kg
Method: US EPA Test Guideline OPP 81-1

Acute inhalation toxicity : LC50 (Rat): 3.6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

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Formic acid:

Acute oral toxicity	:	LD50 (Rat): 730 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 7.85 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: Corrosive to the respiratory tract.
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials

Skin corrosion/irritation

Causes severe burns.

Components:

Glycolic acid:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 3 minutes to 1 hour of exposure

Formic acid:

Result	:	Corrosive after 3 minutes or less of exposure
Remarks	:	Based on national or regional regulation.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Glycolic acid:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

Formic acid:

Result	:	Irreversible effects on the eye
Remarks	:	Based on skin corrosivity.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

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Components:

Glycolic acid:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

Formic acid:

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Glycolic acid:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
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	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
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	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
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Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative
----------------------	---

Germ cell mutagenicity- Assessment	: Weight of evidence does not support classification as a germ cell mutagen.
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Formic acid:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
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Genotoxicity in vivo	: Test Type: Sex-linked recessive lethal test in Drosophila melanogaster (in vivo)
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Application Route: Ingestion
Method: OECD Test Guideline 477
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Glycolic acid:

Species	: Mouse
Application Route	: Skin contact
Exposure time	: 40 weeks
Result	: negative

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
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Formic acid:

Species	: Rat
Application Route	: Ingestion
Exposure time	: 104 weeks
Result	: negative
Remarks	: Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

Glycolic acid:

Effects on fertility	: Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: Regulation (EC) No. 440/2008, Annex, B.34 Result: negative
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Effects on foetal development	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative
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Reproductive toxicity - Assessment	: Weight of evidence does not support classification for reproductive toxicity
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Formic acid:

Effects on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416
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Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

STOT - single exposure

Corrosive to the respiratory tract.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Glycolic acid:

Species : Rat, male and female
NOAEL : 150 mg/kg
LOAEL : 300 mg/kg
Application Route : Ingestion
Exposure time : 90 Days
Method : OECD Test Guideline 408

Formic acid:

Species : Rat
NOAEL : 400 mg/kg
Application Route : Ingestion
Exposure time : 52 Weeks
Remarks : Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 12: Ecological information

12.1 Toxicity

Components:

Glycolic acid:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 114.8 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 99.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 31.2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 14.4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

Formic acid:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 130 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 365 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,240 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
		EC10 (Pseudokirchneriella subcapitata (green algae)): 295 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms	:	NOEC : 72 mg/l Exposure time: 13 d
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC: > 100 mg/l Exposure time: 21 d

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ic toxicity)

Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

12.2 Persistence and degradability

Components:

Glycolic acid:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301B

Formic acid:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

Components:

Glycolic acid:

Partition coefficient: n-octanol/water : log Pow: -1.07

Formic acid:

Partition coefficient: n-octanol/water : log Pow: -2.1

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- | | |
|------------------------|--|
| Product | : It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Do not dispose of waste into sewer. |
| Contaminated packaging | : Follow advice on product label and/or leaflet.
Empty containers retain residue and can be dangerous.
Do not re-use empty containers. |

SECTION 14: Transport information

14.1 UN number or ID number

- | | |
|------|-----------|
| ADN | : UN 3265 |
| ADR | : UN 3265 |
| RID | : UN 3265 |
| IMDG | : UN 3265 |
| IATA | : UN 3265 |

14.2 UN proper shipping name

- | | |
|------|--|
| ADN | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Glycolic acid) |
| ADR | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Glycolic acid) |
| RID | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Glycolic acid) |
| IMDG | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(Glycolic acid) |
| IATA | : Corrosive liquid, acidic, organic, n.o.s.
(Glycolic acid) |

14.3 Transport hazard class(es)

- | | Class | Subsidiary risks |
|-----|-------|------------------|
| ADN | : 8 | |

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ADR	:	8
RID	:	8
IMDG	:	8
IATA	:	8

14.4 Packing group

ADN

Packing group	:	II
Classification Code	:	C3
Hazard Identification Number	:	80
Labels	:	8

ADR

Packing group	:	II
Classification Code	:	C3
Hazard Identification Number	:	80
Labels	:	8
Tunnel restriction code	:	(E)

RID

Packing group	:	II
Classification Code	:	C3
Hazard Identification Number	:	80
Labels	:	8

IMDG

Packing group	:	II
Labels	:	8
EmS Code	:	F-A, S-B

IATA (Cargo)

Packing instruction (cargo aircraft)	:	855
Packing instruction (LQ)	:	Y840
Packing group	:	II
Labels	:	Corrosive

IATA (Passenger)

Packing instruction (passenger aircraft)	:	851
Packing instruction (LQ)	:	Y840
Packing group	:	II
Labels	:	Corrosive

14.5 Environmental hazards

ADN

Environmentally hazardous	:	no
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ADR

Environmentally hazardous	:	no
---------------------------	---	----

RID

Environmentally hazardous	:	no
---------------------------	---	----

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IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

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Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

European Communities (Prohibition of Certain Active Substances in Plant Protection Products) Regulations 1981 (SI No 320/1981)
European Communities (Authorization, Placing on the Market, Use and Control of Plant Protection Products) Regulations 2003 (SI No 83/2003)
European Communities (Classification, Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations 2001 (SI No 624/2001)
2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations, 2001 (SI No 619/2001)
Landfill Directive
Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information : Glyclean™ and any associated logos are trademarks or copyrights of PureTech Scientific LLC.
Before use read PureTech Scientific LLC safety information.
For further information contact the local PureTech Scientific LLC office or nominated distributors.
Blue Frog Scientific EURL, as OR for PureTech Scientific LLC
USA, 967 Route de la Plaine, La Plaine, 26400 Chabrillan,
France, or@bluefrogscientific.com.

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
EUH071	: Corrosive to the respiratory tract.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Skin Corr.	: Skin corrosion
2006/15/EC	: Europe. Indicative occupational exposure limit values

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IE OEL : List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2
2006/15/EC / TWA : Limit Value - eight hours
IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Classification of the mixture:

Skin Corr. 1	H314
Eye Dam. 1	H318

Classification procedure:

Based on product data or assessment
Based on product data or assessment

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only

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to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

IE / EN

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Annex: Exposure Scenarios

Table of Contents

Number	Title
ES1	Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Distribution; Large user.; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Intermediate (PC19).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).
ES2	Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Distribution; Storage.; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Intermediate (PC19).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).
ES3	Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10).; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Leather treatment products (PC23).; Lubricants, greases, release products (PC24).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).; Cosmetics, personal care products (PC39).
ES4	professional use; Building and construction work (SU19); Treatment of concrete.
ES5	Industrial use; Cleaning; Water treatment chemicals; Closed systems.; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).
ES6	Industrial use; Cleaning.; Metal surface treatment products (PC14).; Washing and cleaning products (PC35).
ES7	professional use; Cleaning; Descaler; Water treatment chemicals.; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).
ES8	Consumer use; Cleaning; Descaler.; Washing and cleaning products (PC35).
ES9	Industrial use; Manufacture of computer, electronic and optical products, electrical equipment (SU16); Wafer polishing.; Semiconductors (PC33)..
ES10	Industrial use; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of fine chemicals (SU9); Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils; Refining.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).
ES11	Industrial use; Manufacture of textiles, leather, fur (SU5); Processing aid.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Leather

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	treatment products (PC23).; Textile dyes and impregnating products (PC34).
ES12	Industrial use; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of other non-metallic mineral products, e.g. plasters, cement (SU13); Manufacture of chemical products.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).
ES13	Industrial use; Coatings; Printing ink.; Coatings and paints, thinners, paint removers (PC9a).; Ink and toners (PC18).
ES14	Industrial use; Manufacture of wood and wood products (SU6a); Processing aid - Polymerisation; powder; Coatings.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).
ES15	Industrial use; Processing aid; Manufacture of chemical products.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).
ES16	Industrial use; Manufacture of fabricated metal products, except machinery and equipment (SU15).; Metal surface treatment products (PC14).

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ES 1: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Distribution; Large user.; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Intermediate (PC19).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

1.1. Title section

Exposure Scenario name	: Distribution, Large user
Structured Short Title	: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Distribution; Large user.; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Intermediate (PC19).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

Environment		
CS 1	Industrial use, Distribution, Dedicated facility	ERC2
Worker		
CS 2	Loading, Unloading	PROC8a
CS 3	Storage	PROC1
CS 4	(Re)packing of substances and mixtures	PROC9
CS 5	Product sampling	PROC2
CS 6	Material transfers, Closed systems	PROC1
CS 7	Loading, Unloading, Dedicated facility	PROC8b
CS 8	Cleaning, Vessel / container, Closed systems	PROC1

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

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Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 2000 ton(s)/year
Daily amount per site	: 8000 kg/day
Fraction of Regional tonnage used locally	: 1
Emission days	: 250
Technical and organisational conditions and measures	
Release fraction to air from process < 0.001 Low environmental release	
Release fraction to wastewater from process < 0.001 Low environmental release	
Release fraction to soil from process < 0.001 Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Onsite Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Limit release rate to waste water to (kg/day): Wastewater emissions generated from equipment cleaning with water. 0.08 kg/day	
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

1.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

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Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 1 hour.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operation is undertaken outdoors.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Outdoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

1.2.3. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure

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Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system.	
Conditions and measures related to personal protection, hygiene and health evaluation	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

1.2.4. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Avoid carrying out operation for more than 4 hours.
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Use in semi-automated and predominantly enclosed filling lines.	
Local exhaust ventilation	

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Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

1.2.5. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a predominantly closed system provided with extract ventilation.
Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %

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Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

1.2.6. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

1.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Avoid carrying out operation for more than 1 hour.

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Transfer via enclosed lines.

Local exhaust ventilation

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.

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Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

1.2.8. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system. Drain down and flush system prior to equipment break-in or maintenance.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

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1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Protection Target	Exposure estimate	RCR
Freshwater	0.0016 mg/L (ECETOC TRA environment v2.0)	0.052
Marine water	0.00017 mg/L (ECETOC TRA environment v2.0)	0.054
Freshwater sediment	0.006 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.052
Marine sediment	0.00062 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.054
Agricultural soil	0.00092 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.13
Sewage treatment plant	0.0051 mg/L (ECETOC TRA environment v2.0)	< 0.001

1.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	4.44 mg/m ³ (ECETOC TRA worker v2.0)	0.48
inhalative	systemic	long-term	0.444 mg/m ³ (ECETOC TRA worker v2.0)	0.042
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.444 mg/m ³ (ECETOC TRA worker v2.0)	0.29

1.3.3. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.064 mg/m ³	< 0.007

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			(ECETOC TRA worker v2.0)	
inhalative	systemic	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.003
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.021

1.3.4. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	3.17 mg/m ³ (ECETOC TRA worker v2.0)	0.34
inhalative	systemic	long-term	0.951 mg/m ³ (ECETOC TRA worker v2.0)	0.09
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	0.951 mg/m ³ (ECETOC TRA worker v2.0)	0.62

1.3.5. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.634 mg/m ³ (ECETOC TRA worker v2.0)	0.069
inhalative	systemic	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.03
dermal	systemic	long-term	0.137 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.003

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inhalative	local	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.21
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1.3.6. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.064 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007
inhalative	systemic	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.003
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.021

1.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.951 mg/m ³ (ECETOC TRA worker v2.0)	0.1
inhalative	systemic	long-term	< 0.096 mg/m ³ (ECETOC TRA worker v2.0)	0.009
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	< 0.096 mg/m ³ (ECETOC TRA worker v2.0)	0.062

1.3.8. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	short-term	< 0.064 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007
inhalative	systemic	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.003
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.021

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 2: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Distribution; Storage.; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Intermediate (PC19).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

2.1. Title section

Exposure Scenario name	: Distribution, Storage
Structured Short Title	: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10); Distribution; Storage.; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Intermediate (PC19).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Laboratory chemicals (PC21).; Leather treatment products (PC23).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

Environment		
CS 1	Industrial use, Distribution, Storage	ERC2
Worker		
CS 2	Loading, Unloading	PROC8a
CS 3	Storage	PROC1
CS 4	(Re)packing of substances and mixtures	PROC9
CS 5	Product sampling	PROC2
CS 6	Material transfers, Closed systems	PROC1
CS 7	Loading, Unloading, Dedicated facility	PROC8b
CS 8	Industrial use of quality control	PROC15

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

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Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 1000 tonnes/year
Daily amount per site	: 3333 kg/day
Fraction of Regional tonnage used locally	: 1
Emission days	: 300
Technical and organisational conditions and measures	
Release fraction to air from process < 0.001 Low environmental release	
Release fraction to wastewater from process < 0.001 Low environmental release	
Release fraction to soil from process < 0.001 Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Onsite Sewage Treatment Plant
STP sludge treatment	: Do not use sludge as fertiliser. Sludge is disposed or recovered.
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

2.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

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Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

2.2.3. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours

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Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

2.2.4. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 4 hours.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Use in semi-automated and predominantly enclosed filling lines.
Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation

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Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

2.2.5. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Avoid carrying out operation for more than 15 minutes.

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a predominantly closed system provided with extract ventilation.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

2.2.6. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.

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Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

2.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines.
Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

2.2.8. Control of worker exposure: Use as laboratory reagent (PROC15)

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Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Protection Target	Exposure estimate	RCR
Freshwater	0.0013 mg/L (ECETOC TRA environment v2.0)	0.042

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Marine water	0.00014 mg/L (ECETOC TRA environment v2.0)	0.045
Freshwater sediment	0.0049 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	< 0.043
Marine sediment	0.00051 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	< 0.045
Agricultural soil	0.0009 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.13
Sewage treatment plant	0.0021 mg/L (ECETOC TRA environment v2.0)	< 0.001

2.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	6.34 mg/m ³ (ECETOC TRA worker v2.0)	0.69
inhalative	systemic	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.03
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.21

2.3.3. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.064 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007
inhalative	systemic	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.003
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006

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inhalative	local	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.021
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2.3.4. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	3.17 mg/m ³ (ECETOC TRA worker v2.0)	0.34
inhalative	systemic	long-term	0.951 mg/m ³ (ECETOC TRA worker v2.0)	0.09
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	0.951 mg/m ³ (ECETOC TRA worker v2.0)	0.62

2.3.5. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.634 mg/m ³ (ECETOC TRA worker v2.0)	0.069
inhalative	systemic	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.03
dermal	systemic	long-term	0.137 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.003
inhalative	local	long-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.21

2.3.6. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	short-term	< 0.064 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007
inhalative	systemic	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.003
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.021

2.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.951 mg/m ³ (ECETOC TRA worker v2.0)	0.1
inhalative	systemic	long-term	< 0.048 mg/m ³ (ECETOC TRA worker v2.0)	< 0.005
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	< 0.048 mg/m ³ (ECETOC TRA worker v2.0)	0.031

2.3.8. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	3.17 mg/m ³ (ECETOC TRA worker v2.0)	0.34
inhalative	systemic	long-term	0.158 mg/m ³ (ECETOC TRA worker v2.0)	0.015
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001

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			TRA worker v2.0)	
inhalative	local	long-term	0.158 mg/m ³ (ECETOC TRA worker v2.0)	0.1

2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 3: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10).; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Leather treatment products (PC23).; Lubricants, greases, release products (PC24).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).; Cosmetics, personal care products (PC39).

3.1. Title section

Exposure Scenario name	: Formulation
Structured Short Title	: Industrial use; Formulation [mixing] of preparations and/or re-packaging (SU10).; Biocidal products (PC8).; Metal surface treatment products (PC14).; Non-metal surface treatment products (PC15).; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Leather treatment products (PC23).; Lubricants, greases, release products (PC24).; Paper and board treatment products (PC26).; Polymer preparations and compounds (PC32).; Textile dyes and impregnating products (PC34).; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).; Cosmetics, personal care products (PC39).

Environment		
CS 1	Formulation	ERC2
Worker		
CS 2	Use in closed process	PROC1
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Batch process, Closed systems	PROC3
CS 5	Batch process, Use in semi-closed process with opportunity for exposure	PROC4
CS 6	Mixing operations, Batch process	PROC5
CS 7	Industrial use, Spraying	PROC7
CS 8	Material transfers, Non-dedicated facility	PROC8a
CS 9	Material transfers, Dedicated facility	PROC8b
CS 10	Material transfers, Small scale, Dedicated equipment	PROC9
CS 11	Tabletting, compression, extrusion or pelletisation	PROC14
CS 12	Laboratory activities	PROC15

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3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 1000 tonnes/year
Daily amount per site	: 4545 kg/day
Fraction of Regional tonnage used locally	: 1
Emission days	: 220
Technical and organisational conditions and measures	
Air emission controls are not applicable as there is no direct release to air.	
Release fraction to wastewater from process 0.001 Low environmental release	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

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3.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system. Good natural ventilation	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

3.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

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Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation Handle substance within a predominantly closed system provided with extract ventilation.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

3.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure

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Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

3.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation	

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Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

When there is a potential for exposure:

Wear suitable respiratory protection.

Inhalation - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.

Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.

Avoid manual contact with contaminated tools and objects.

Ensure material transfers are under containment or extract ventilation.

Ensure operatives are trained to minimise exposures.

Assumes a good basic standard of occupational hygiene is implemented.

3.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Local exhaust ventilation

Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

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Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

When there is a potential for exposure:
Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

3.2.7. Control of worker exposure: Industrial spraying (PROC7)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Local exhaust ventilation

Handle substance within a predominantly closed system provided with extract ventilation.

Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

When there is a potential for exposure:

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Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

3.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Local exhaust ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

When there is a potential for exposure:
Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.

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Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

3.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Local exhaust ventilation
Transfer via enclosed lines.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

When there is a potential for exposure:
Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

3.2.10. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Use in semi-automated and predominantly enclosed filling lines.
Clear transfer lines prior to de-coupling.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

3.2.11. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Local exhaust ventilation

Handle substance within a closed system.

Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

When there is a potential for exposure:

Wear suitable respiratory protection.

Inhalation - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.

Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

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Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

3.2.12. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

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3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Protection Target	Exposure estimate	RCR
Freshwater	0.03 mg/L (ECETOC TRA environment v2.0)	0.95
Marine water	0.003 mg/L (ECETOC TRA environment v2.0)	0.96
Freshwater sediment	0.11 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.95
Marine sediment	0.011 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.95
Agricultural soil	0.0019 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.27
Sewage treatment plant	0.285 mg/L (ECETOC TRA environment v2.0)	0.041

3.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006

3.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.29 mg/m ³ (Stofenmanager v4.0)	0.14
inhalative	systemic	long-term	0.323 mg/m ³ (Stofenmanager v4.0)	0.031
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.323 mg/m ³ (Stofenmanager v4.0)	0.211

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3.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.29 mg/m ³ (Stoffenmanager v4.0)	0.14
inhalative	systemic	long-term	0.323 mg/m ³ (Stoffenmanager v4.0)	0.031
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	0.323 mg/m ³ (Stoffenmanager v4.0)	0.211

3.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.68 mg/m ³ (Stoffenmanager v4.0)	0.29
inhalative	systemic	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.063
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.438

3.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.68 mg/m ³ (Stoffenmanager v4.0)	0.29
inhalative	systemic	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.063
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.438

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3.3.7. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.68 mg/m ³ (Stoffenmanager v4.0)	0.29
inhalative	systemic	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.063
dermal	systemic	long-term	4.29 mg/kg dry weight (ECETOC TRA worker v2.0)	0.074
inhalative	local	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.438

3.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.68 mg/m ³ (Stoffenmanager v4.0)	0.29
inhalative	systemic	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.063
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.438

3.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.68 mg/m ³ (Stoffenmanager v4.0)	0.29
inhalative	systemic	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.063
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.438

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			fenmanager v4.0)	
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3.3.10. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.2 mg/m ³ (Stoffenmanager v4.0)	0.13
inhalative	systemic	long-term	0.301 mg/m ³ (Stoffenmanager v4.0)	0.029
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	0.301 mg/m ³ (Stoffenmanager v4.0)	0.197

3.3.11. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.68 mg/m ³ (Stoffenmanager v4.0)	0.29
inhalative	systemic	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.063
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.438

3.3.12. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.29 mg/m ³ (Stoffenmanager v4.0)	0.14
inhalative	systemic	long-term	0.323 mg/m ³ (Stoffenmanager v4.0)	0.031
dermal	systemic	long-term	< 0.035 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001

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inhalative	local	long-term	0.323 mg/m ³ (Stof-fenmanager v4.0)	0.211
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3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 4: professional use; Building and construction work (SU19); Treatment of concrete.

4.1. Title section

Exposure Scenario name	: Treatment of concrete
Structured Short Title	: professional use; Building and construction work (SU19); Treatment of concrete.

Environment		
CS 1	Professional, Building and construction work, Cleaning	ERC8d
Worker		
CS 2	Material transfers	PROC8a
CS 3	Roller application or brushing of adhesive and other coating.	PROC10
CS 4	professional use, Spraying	PROC11
CS 5	Treatment by dipping and pouring	PROC13
CS 6	Mixing operations, Manual	PROC19

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

Product (article) characteristics	
Covers concentrations up to 60 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 1000 tonnes/year
Daily amount per site	: 5 kg/day
Fraction of Regional tonnage used locally	: 0.002
Emission days	: 365
Technical and organisational conditions and measures	

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Air emission controls are not applicable as there is no direct release to air.

Release fraction to wastewater from process 0.01

Low environmental release

Release fraction to soil from process 0.037

Low environmental release

Conditions and measures related to sewage treatment plant

STP type : Municipal Sewage Treatment Plant

STP effluent : 2,000 m3/d

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Dispose of waste product or used containers according to local regulations.

Other conditions affecting environmental exposure

Receiving surface water flow : 18,000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

4.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Covers concentrations up to 60 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operation is undertaken outdoors.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

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Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

4.2.3. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics

Concentration after dilution for use maximum 15 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operation is undertaken outdoors.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.

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Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

4.2.4. Control of worker exposure: Non-industrial spraying (PROC11)

Product (article) characteristics
Concentration after dilution for use maximum 15 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operation is undertaken outdoors.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Outdoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

4.2.5. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

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Concentration after dilution for use maximum 15 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operation is undertaken outdoors.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Outdoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

4.2.6. Control of worker exposure: Manual activities involving hand contact (PROC19)

Product (article) characteristics
Concentration after dilution for use maximum 15 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures

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Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operation is undertaken outdoors.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

Protection Target	Exposure estimate	RCR
Freshwater	0.0011 mg/L (ECETOC TRA environment v2.0)	0.037
Marine water	0.00012 mg/L (ECETOC TRA environment v2.0)	0.039
Freshwater sediment	0.0042 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.037
Marine sediment	0.00045 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.039
Agricultural soil	0.0009 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.13
Sewage treatment plant	0.00035 mg/L (ECETOC TRA environment v2.0)	< 0.001

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4.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.48 mg/m ³ (Stoffenmanager v4.0)	0.27
inhalative	systemic	long-term	0.62 mg/m ³ (Stoffenmanager v4.0)	0.059
dermal	systemic	long-term	0.768 mg/kg dry weight (ECETOC TRA worker v2.0)	0.013
inhalative	local	long-term	0.62 mg/m ³ (Stoffenmanager v4.0)	0.41

4.3.3. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.256 mg/m ³ (Stoffenmanager v4.0)	0.028
inhalative	systemic	long-term	0.064 mg/m ³ (Stoffenmanager v4.0)	< 0.007
dermal	systemic	long-term	0.384 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.007
inhalative	local	long-term	0.064 mg/m ³ (Stoffenmanager v4.0)	0.042

4.3.4. Worker exposure: Non-industrial spraying (PROC11)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1 mg/m ³ (Stoffenmanager v4.0)	0.11
inhalative	systemic	long-term	0.25 mg/m ³ (Stoffenmanager v4.0)	0.024
dermal	systemic	long-term	1.5 mg/kg dry weight (ECETOC TRA worker v2.0)	0.026
inhalative	local	long-term	0.25 mg/m ³ (Stoffenmanager v4.0)	0.16

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4.3.5. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.2 mg/m ³ (Stoffenmanager v4.0)	0.24
inhalative	systemic	long-term	0.55 mg/m ³ (Stoffenmanager v4.0)	0.052
dermal	systemic	long-term	0.192 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.004
inhalative	local	long-term	0.55 mg/m ³ (Stoffenmanager v4.0)	0.36

4.3.6. Worker exposure: Manual activities involving hand contact (PROC19)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.08 mg/m ³ (Stoffenmanager v4.0)	0.12
inhalative	systemic	long-term	0.27 mg/m ³ (Stoffenmanager v4.0)	0.026
dermal	systemic	long-term	1.98 mg/kg dry weight (ECETOC TRA worker v2.0)	0.034
inhalative	local	long-term	0.27 mg/m ³ (Stoffenmanager v4.0)	0.18

4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 5: Industrial use; Cleaning; Water treatment chemicals; Closed systems.; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

5.1. Title section

Exposure Scenario name	: Cleaning, Water treatment chemicals, Closed systems
Structured Short Title	: Industrial use; Cleaning; Water treatment chemicals; Closed systems.; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

Environment		
CS 1	Industrial use, Cleaning agent, Water treatment chemicals	ERC4
Worker		
CS 2	Use in closed process	PROC1
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Batch process, Use in semi-closed process with opportunity for exposure	PROC4
CS 5	Material transfers, Non-dedicated facility	PROC8a
CS 6	Material transfers, Dedicated facility	PROC8b
CS 7	Material transfers, Small scale, Dedicated equipment	PROC9

5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 300 tonnes/year
Daily amount per site	: 822 kg/day
Fraction of Regional tonnage used locally	: 1
Emission days	: 365

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Technical and organisational conditions and measures	
Air emission controls are not applicable as there is no direct release to air.	
Release fraction to wastewater from process 0.005 Low environmental release	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Onsite Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

5.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics	
Concentration after dilution for use maximum 15 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system.	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	

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Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

5.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics
Concentration after dilution for use maximum 15 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a predominantly closed system provided with extract ventilation. Good natural ventilation
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %

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Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

5.2.4. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Concentration after dilution for use maximum 15 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Good natural ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

5.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Local exhaust ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

When there is a potential for exposure:
Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.

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Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

5.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines. Local exhaust ventilation
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
When there is a potential for exposure: Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures.

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Assumes a good basic standard of occupational hygiene is implemented.

5.2.7. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Use in semi-automated and predominantly enclosed filling lines.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

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5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0.027 mg/L (ECETOC TRA environment v2.0)	0.87
Marine water	0.0027 mg/L (ECETOC TRA environment v2.0)	0.88
Freshwater sediment	0.1 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.87
Marine sediment	0.01 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.87
Agricultural soil	0.0018 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.26
Sewage treatment plant	0.26 mg/L (ECETOC TRA environment v2.0)	0.037

5.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.06 mg/kg dry weight (ECETOC TRA worker v2.0)	0.001

5.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.16 mg/m ³ (Stoffenmanager v4.0)	0.13
inhalative	systemic	long-term	0.29 mg/m ³ (Stoffenmanager v4.0)	0.027
dermal	systemic	long-term	0.024 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.29 mg/m ³ (Stoffenmanager v4.0)	0.19

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5.3.4. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.36 mg/m ³ (Stoffenmanager v4.0)	0.26
inhalative	systemic	long-term	0.59 mg/m ³ (Stoffenmanager v4.0)	0.056
dermal	systemic	long-term	0.12 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.003
inhalative	local	long-term	0.59 mg/m ³ (Stoffenmanager v4.0)	0.39

5.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.68 mg/m ³ (Stoffenmanager v4.0)	0.29
inhalative	systemic	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.063
dermal	systemic	long-term	0.96 mg/kg dry weight (ECETOC TRA worker v2.0)	0.017
inhalative	local	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.44

5.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.68 mg/m ³ (Stoffenmanager v4.0)	0.29
inhalative	systemic	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.063
dermal	systemic	long-term	0.48 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.009
inhalative	local	long-term	0.67 mg/m ³ (Stoffenmanager v4.0)	0.44

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			fenmanager v4.0)	
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5.3.7. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.2 mg/m ³ (Stof-fenmanager v4.0)	0.13
inhalative	systemic	long-term	0.301 mg/m ³ (Stof-fenmanager v4.0)	0.029
dermal	systemic	long-term	0.48 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.009
inhalative	local	long-term	0.301 mg/m ³ (Stof-fenmanager v4.0)	0.2

5.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 6: Industrial use; Cleaning.; Metal surface treatment products (PC14).; Washing and cleaning products (PC35).

6.1. Title section

Exposure Scenario name	: Cleaning
Structured Short Title	: Industrial use; Cleaning.; Metal surface treatment products (PC14).; Washing and cleaning products (PC35).

Environment		
CS 1	Industrial use, Cleaning agent	ERC4
Worker		
CS 2	Use in closed process	PROC1
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Batch process, Use in semi-closed process with opportunity for exposure	PROC4
CS 5	Mixing operations, Batch process	PROC5
CS 6	Industrial use, Spraying	PROC7
CS 7	Material transfers, Non-dedicated facility	PROC8a
CS 8	Material transfers, Dedicated facility	PROC8b
CS 9	Material transfers, Small scale, Dedicated equipment	PROC9
CS 10	Rolling, Brushing	PROC10
CS 11	Treatment by dipping and pouring	PROC13

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 2 tonnes/year

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Daily amount per site	: 9 kg/day
Fraction of Regional tonnage used locally	: 1
Emission days	: 220
Technical and organisational conditions and measures	
Air emission controls are not applicable as there is no direct release to air.	
Release fraction to wastewater from process 0.5 Worst case assumption	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Onsite Sewage Treatment Plant
STP sludge treatment	: Do not use sludge as fertiliser. Sludge is disposed or recovered.
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

6.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics	
Concentration after dilution for use maximum 17.5 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours

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Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a closed system.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

6.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Concentration after dilution for use maximum 17.5 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a predominantly closed system provided with extract ventilation.

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Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

6.2.4. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Concentration after dilution for use maximum 17.5 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Good natural ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

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Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

6.2.5. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics

Concentration after dilution for use maximum 17.5 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Good natural ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

6.2.6. Control of worker exposure: Industrial spraying (PROC7)

Product (article) characteristics

Concentration after dilution for use maximum 17.5 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Local exhaust ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable respiratory protection.
Inhalation - minimum efficiency of 90 %

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.

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Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

6.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
When there is a potential for exposure: Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

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6.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation Transfer via enclosed lines.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
When there is a potential for exposure: Wear suitable respiratory protection. Inhalation - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

6.2.9. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

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Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Use in semi-automated and predominantly enclosed filling lines.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

6.2.10. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics
Concentration after dilution for use maximum 17.5 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure

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Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

6.2.11. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics	
Concentration after dilution for use maximum 17.5 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system.	
Clean equipment and the work area every day.	

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Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0.03 mg/L (ECETOC TRA environment v2.0)	0.96
Marine water	0.003 mg/L (ECETOC TRA environment v2.0)	0.97
Freshwater sediment	0.11 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.96
Marine sediment	0.011 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.96
Agricultural soil	0.0009 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.13
Sewage treatment plant	0.29 mg/L (ECETOC TRA environment v2.0)	0.041

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6.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.06 mg/kg dry weight (ECETOC TRA worker v2.0)	0.001

6.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.16 mg/m ³ (Stoffenmanager v4.0)	0.13
inhalative	systemic	long-term	0.29 mg/m ³ (Stoffenmanager v4.0)	0.027
dermal	systemic	long-term	0.024 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.29 mg/m ³ (Stoffenmanager v4.0)	0.19

6.3.4. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.36 mg/m ³ (Stoffenmanager v4.0)	0.26
inhalative	systemic	long-term	0.59 mg/m ³ (Stoffenmanager v4.0)	0.056
dermal	systemic	long-term	0.12 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.003
inhalative	local	long-term	0.59 mg/m ³ (Stoffenmanager v4.0)	0.39

6.3.5. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.36 mg/m ³ (Stof-	0.26

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			fenmanager v4.0)	
inhalative	systemic	long-term	0.59 mg/m ³ (Stof-fenmanager v4.0)	0.056
dermal	systemic	long-term	0.24 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.005
inhalative	local	long-term	0.59 mg/m ³ (Stof-fenmanager v4.0)	0.39

6.3.6. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.36 mg/m ³ (Stof-fenmanager v4.0)	0.26
inhalative	systemic	long-term	0.59 mg/m ³ (Stof-fenmanager v4.0)	0.056
dermal	systemic	long-term	0.24 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.005
inhalative	local	long-term	0.59 mg/m ³ (Stof-fenmanager v4.0)	0.39

6.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.592 mg/m ³ (Stof-fenmanager v4.0)	0.064
inhalative	systemic	long-term	0.148 mg/m ³ (Stof-fenmanager v4.0)	0.014
dermal	systemic	long-term	0.96 mg/kg dry weight (ECETOC TRA worker v2.0)	0.017
inhalative	local	long-term	0.148 mg/m ³ (Stof-fenmanager v4.0)	0.097

6.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	short-term	0.592 mg/m ³ (Stof-fenmanager v4.0)	0.064
inhalative	systemic	long-term	0.148 mg/m ³ (Stof-fenmanager v4.0)	0.014
dermal	systemic	long-term	0.48 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.009
inhalative	local	long-term	0.148 mg/m ³ (Stof-fenmanager v4.0)	0.097

6.3.9. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.32 mg/m ³ (Stof-fenmanager v4.0)	0.25
inhalative	systemic	long-term	0.58 mg/m ³ (Stof-fenmanager v4.0)	0.055
dermal	systemic	long-term	0.48 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.009
inhalative	local	long-term	0.58 mg/m ³ (Stof-fenmanager v4.0)	0.38

6.3.10. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.36 mg/m ³ (Stof-fenmanager v4.0)	0.26
inhalative	systemic	long-term	0.59 mg/m ³ (Stof-fenmanager v4.0)	0.056
dermal	systemic	long-term	0.48 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.009
inhalative	local	long-term	0.59 mg/m ³ (Stof-fenmanager v4.0)	0.39

6.3.11. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	short-term	2.2 mg/m ³ (Stof-fenmanager v4.0)	0.24
inhalative	systemic	long-term	0.55 mg/m ³ (Stof-fenmanager v4.0)	0.052
dermal	systemic	long-term	0.24 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.005
inhalative	local	long-term	0.55 mg/m ³ (Stof-fenmanager v4.0)	0.36

6.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 7: professional use; Cleaning; Descaler; Water treatment chemicals.; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

7.1. Title section

Exposure Scenario name	: Cleaning, Descaler, Water treatment chemicals
Structured Short Title	: professional use; Cleaning; Descaler; Water treatment chemicals.; Washing and cleaning products (PC35).; Water treatment chemicals (PC37).

Environment		
CS 1	professional use, Cleaning agent, Decalcification agent, Water treatment chemicals	ERC8a
Worker		
CS 2	Use in closed process	PROC1
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Batch process, Use in semi-closed process with opportunity for exposure	PROC4
CS 5	Material transfers, Non-dedicated facility	PROC8a
CS 6	Material transfers, Dedicated facility	PROC8b
CS 7	Material transfers, Small scale, Dedicated equipment	PROC9
CS 8	Rolling, Brushing	PROC10
CS 9	Professional, Spraying	PROC11
CS 10	Treatment by dipping and pouring	PROC13
CS 11	Mixing operations, Manual	PROC19

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Product (article) characteristics	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	

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Annual site tonnage	: 10000 ton(s)/year
Daily amount per site	: 21 kg/day
Fraction of Regional tonnage used locally	: 0.00075
Emission days	: 365
Technical and organisational conditions and measures	
Air emission controls are not applicable as there is no direct release to air.	
Release fraction to wastewater from process 1	
Worst case assumption	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

7.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics	
Concentration after dilution for use maximum 5 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	

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Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a closed system.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

7.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Concentration after dilution for use maximum 5 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a predominantly closed system provided with extract ventilation.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

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Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

7.2.4. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics
Concentration after dilution for use maximum 5 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable gloves tested to EN374.

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

7.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Covers concentrations up to 15 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Good natural ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

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Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

7.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Covers concentrations up to 15 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation Transfer via enclosed lines.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

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7.2.7. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics
Covers concentrations up to 15 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Use in semi-automated and predominantly enclosed filling lines.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

7.2.8. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics
Concentration after dilution for use maximum 5 %
Physical form of product : Liquid

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Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

7.2.9. Control of worker exposure: Non-industrial spraying (PROC11)

Product (article) characteristics	
Concentration after dilution for use maximum 5 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	

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Good natural ventilation
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

7.2.10. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics
Concentration after dilution for use maximum 5 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.

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When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

7.2.11. Control of worker exposure: Manual activities involving hand contact (PROC19)

Product (article) characteristics

Concentration after dilution for use maximum 5 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Good natural ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Protection Target	Exposure estimate	RCR
Freshwater	0.014 mg/L (ECETOC TRA environment v2.0)	0.45
Marine water	0.0014 mg/L (ECETOC TRA environment v2.0)	0.46
Freshwater sediment	0.052 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.45
Marine sediment	0.00525 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.46
Agricultural soil	0.00135 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.19
Sewage treatment plant	0.13 mg/L (ECETOC TRA environment v2.0)	0.01

7.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	< 0.02 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001

7.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	short-term	0.852 mg/m ³ (Stof-fenmanager v4.0)	0.093
inhalative	systemic	long-term	0.213 mg/m ³ (Stof-fenmanager v4.0)	0.02
dermal	systemic	long-term	< 0.077 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.002
inhalative	local	long-term	0.213 mg/m ³ (Stof-fenmanager v4.0)	0.14

7.3.4. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.32 mg/m ³ (Stof-fenmanager v4.0)	0.25
inhalative	systemic	long-term	0.58 mg/m ³ (Stof-fenmanager v4.0)	0.055
dermal	systemic	long-term	0.384 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.007
inhalative	local	long-term	0.58 mg/m ³ (Stof-fenmanager v4.0)	0.38

7.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.04 mg/m ³ (Stof-fenmanager v4.0)	0.22
inhalative	systemic	long-term	0.51 mg/m ³ (Stof-fenmanager v4.0)	0.048
dermal	systemic	long-term	0.192 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.004
inhalative	local	long-term	0.51 mg/m ³ (Stof-fenmanager v4.0)	0.33

7.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	short-term	2.04 mg/m ³ (Stof-fenmanager v4.0)	0.22
inhalative	systemic	long-term	0.51 mg/m ³ (Stof-fenmanager v4.0)	0.048
dermal	systemic	long-term	0.096 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.002
inhalative	local	long-term	0.51 mg/m ³ (Stof-fenmanager v4.0)	0.33

7.3.7. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.44 mg/m ³ (Stof-fenmanager v4.0)	0.048
inhalative	systemic	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.01
dermal	systemic	long-term	0.096 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.002
inhalative	local	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.072

7.3.8. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	3.64 mg/m ³ (Stof-fenmanager v4.0)	0.4
inhalative	systemic	long-term	0.91 mg/m ³ (Stof-fenmanager v4.0)	0.086
dermal	systemic	long-term	1.54 mg/kg dry weight (ECETOC TRA worker v2.0)	0.027
inhalative	local	long-term	0.91 mg/m ³ (Stof-fenmanager v4.0)	0.59

7.3.9. Worker exposure: Non-industrial spraying (PROC11)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	5.08 mg/m ³ (Stoffenmanager v4.0)	0.55
inhalative	systemic	long-term	1.27 mg/m ³ (Stoffenmanager v4.0)	0.12
dermal	systemic	long-term	6 mg/kg dry weight (ECETOC TRA worker v2.0)	0.1
inhalative	local	long-term	1.27 mg/m ³ (Stoffenmanager v4.0)	0.83

7.3.10. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	3.64 mg/m ³ (Stoffenmanager v4.0)	0.4
inhalative	systemic	long-term	0.91 mg/m ³ (Stoffenmanager v4.0)	0.086
dermal	systemic	long-term	1.54 mg/kg dry weight (ECETOC TRA worker v2.0)	0.027
inhalative	local	long-term	0.91 mg/m ³ (Stoffenmanager v4.0)	0.59

7.3.11. Worker exposure: Manual activities involving hand contact (PROC19)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.12 mg/m ³ (Stoffenmanager v4.0)	0.12
inhalative	systemic	long-term	0.28 mg/m ³ (Stoffenmanager v4.0)	0.027
dermal	systemic	long-term	7.92 mg/kg dry weight (ECETOC TRA worker v2.0)	0.14
inhalative	local	long-term	0.28 mg/m ³ (Stoffenmanager v4.0)	0.18

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ES 8: Consumer use; Cleaning; Descaler.; Washing and cleaning products (PC35).

8.1. Title section

Exposure Scenario name	: Cleaning, Descaler
Structured Short Title	: Consumer use; Cleaning; Descaler.; Washing and cleaning products (PC35).

Environment		
CS 1	Consumer use, Cleaning agent, Decalcification agent	ERC8a
Consumer		
CS 2	Cleaning agent, Decalcification agent, Water treatment chemicals, LAUNDRY REGULAR (powder, liquid) for consumer use	PC35
CS 3	Cleaning agent, Decalcification agent, Water treatment chemicals, LAUNDRY COMPACT (powder, liquid/gel, tablet) for consumer use	PC35
CS 4	Cleaning agent, Decalcification agent, Water treatment chemicals, HAND DISHWASHING (liquid regular, liquid concentrate) for consumer use	PC35
CS 5	Cleaning agent, Decalcification agent, Water treatment chemicals, MACHINE DISHWASHING (powder, liquid, tablet) for consumer use	PC35
CS 6	Cleaning agent, Decalcification agent, Water treatment chemicals, SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use, liquid	PC35
CS 7	Cleaning agent, Decalcification agent, Water treatment chemicals, SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use, Spray cleaners	PC35
CS 8	Cleaning agent, Decalcification agent, batch, Cleaning, Washing and cleaning products (Household use, Institutional use) - Inorganic alkalis, organic alkalis, inorganic acids, organic acids, bleaching agents	PC35
CS 9	Cleaning agent, Decalcification agent, batch, Cleaning, Washing and cleaning products (Household use, Institutional use) - Inorganic alkalis, organic alkalis, inorganic acids, organic acids, bleaching agents	PC35
CS 10	Cleaning agent, Decalcification agent, Water treatment chemicals, Bath-room cleaning (liquid), Mixing, Loading	PC35
CS 11	Cleaning agent, Decalcification agent, Water treatment chemicals, Bath-room cleaning (liquid), Mixing, Loading	PC35
CS 12	Cleaning agent, Decalcification agent, Water treatment chemicals, Bath-room cleaning (liquid), Cleaning	PC35
CS 13	Cleaning agent, Decalcification agent, Water treatment chemicals, Bath-room cleaning (liquid), Cleaning	PC35

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CS 14	Cleaning agent, Decalcification agent, Water treatment chemicals, Floor cleaning (liquids), Mixing, Loading	PC35
CS 15	Cleaning agent, Decalcification agent, Water treatment chemicals, Floor cleaning (liquids), Mixing, Loading	PC35
CS 16	Cleaning agent, Decalcification agent, Water treatment chemicals, Floor cleaning (liquids), Cleaning	PC35
CS 17	Cleaning agent, Decalcification agent, Water treatment chemicals, Floor cleaning (liquids), Cleaning	PC35

8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 5000 tonnes/year
Daily amount per site	: 10 kg/day
Fraction of Regional tonnage used locally	: 0.00075
Emission days	: 365
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Household solid waste (e.g., product packaging) is treated at municipal waste disposal sites.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

8.2.2. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics
Covers concentrations up to 5 %

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Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 230 g/event
Duration	: Exposure duration 10 min
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities

8.2.3. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Gel
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 140 g/event
Duration	: Exposure duration 10 min
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities

8.2.4. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 10 g/event
Duration	: Exposure duration 45 min
Other conditions affecting consumers exposure	

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Indoor or outdoor use	: Indoor activities
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8.2.5. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 40 g/event
Duration	: Exposure duration < 1 min
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities

8.2.6. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 110 g/event
Duration	: Application duration 20 min
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities

8.2.7. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid

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Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 30 g/event
Duration	: Application duration 10 min
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities
Room size	: 15 m ³

8.2.8. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 1000 g/event
Use frequency	: 260 times per year
Duration	: Exposure duration 3 min
Duration	: Application duration 2 min
Inhalation	
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities
Room size	: 2.5 m ³
Ventilation rate	: 2

8.2.9. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa

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Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 2.2 g/event
Use frequency	: 260 times per year
Dermal	
Other conditions affecting consumers exposure	
Body parts exposed	: Palm of one hand
Indoor or outdoor use	: Indoor activities

8.2.10. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 500 g/event
Use frequency	: 4 times per year
Duration	: Exposure duration 0.75 min
Duration	: Application duration 0.3 min
Inhalation	
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities
Room size	: 1 m ³
Ventilation rate	: 2

8.2.11. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa

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Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 0.01 g/event
Use frequency	: 4 times per year
Dermal	
Other conditions affecting consumers exposure	
Body parts exposed	: Palm of one hand
Indoor or outdoor use	: Indoor activities

8.2.12. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 260 g/event
Use frequency	: 4 times per year
Duration	: Exposure duration 25 min
Duration	: Application duration 20 min
Inhalation	
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities
Room size	: 10 m ³
Ventilation rate	: 2

8.2.13. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa

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Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 8.58 g/event
Use frequency	: 4 times per year
Dermal	
Other conditions affecting consumers exposure	
Body parts exposed	: Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	: Indoor activities

8.2.14. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 500 g/event
Use frequency	: 104 times per year
Duration	: Exposure duration 0.75 min
Duration	: Application duration 0.3 min
Inhalation	
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities
Room size	: 1 m ³
Ventilation rate	: 0.5

8.2.15. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 10 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa

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Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 0.01 g/event
Use frequency	: 104 times per year
Dermal	
Other conditions affecting consumers exposure	
Body parts exposed	: Palm of one hand
Indoor or outdoor use	: Indoor activities

8.2.16. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa
Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 880 g/event
Use frequency	: 104 times per year
Duration	: Exposure duration 240 min
Duration	: Application duration 30 min
Inhalation	
Other conditions affecting consumers exposure	
Indoor or outdoor use	: Indoor activities
Room size	: 58 m ³
Ventilation rate	: 0.5

8.2.17. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: Liquid
Vapour pressure	: 0.41 hPa

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Amount used (or contained in articles), frequency and duration of use/exposure	
Amount used per event	: 19 g/event
Use frequency	: 104 times per year
Dermal	
Other conditions affecting consumers exposure	
Body parts exposed	: Assumes that potential dermal contact is limited to hands and forearms.
Indoor or outdoor use	: Indoor activities

8.3. Exposure estimation and reference to its source

8.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Protection Target	Exposure estimate	RCR
Freshwater	0.0076 mg/L (ECETOC TRA environment v2.0)	0.24
Marine water	0.00077 mg/L (ECETOC TRA environment v2.0)	0.25
Freshwater sediment	0.028 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.245
Marine sediment	0.0028 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.25
Agricultural soil	0.0011 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.16
Sewage treatment plant	0.065 mg/L (ECETOC TRA environment v2.0)	< 0.01

8.3.2. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	3.82 mg/kg bw/day (AISE REACT)	0.13

8.3.3. Consumer exposure: Washing and cleaning products (PC35)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	3.82 mg/kg bw/day (AISE REACT)	0.13

8.3.4. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	< 0.053 mg/kg bw/day (AISE REACT)	< 0.002
oral	systemic	long-term	< 0.001 mg/kg bw/day (AISE REACT)	< 0.001

8.3.5. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
oral	systemic	long-term	< 0.001 mg/kg bw/day (AISE REACT)	< 0.001

8.3.6. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.157 mg/kg bw/day (AISE REACT)	< 0.006

8.3.7. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.061 mg/m ³ (AISE REACT)	0.08
inhalative	systemic	long-term	< 0.061 mg/kg bw/day (AISE REACT)	0.069
dermal	systemic	long-term	7.15 mg/kg bw/day (AISE REACT)	0.25

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inhalative	local	long-term	< 0.061 mg/kg bw/day (AISE REACT)	0.47
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8.3.8. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.005 mg/m ³ (Consexpo v4.1)	0.002
inhalative	systemic	long-term	< 0.005 mg/m ³ (Consexpo v4.1)	< 0.002
inhalative	local	long-term	< 0.005 mg/m ³ (Consexpo v4.1)	0.012

8.3.9. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	3.67 mg/kg bw/day (Consexpo v4.1)	0.13

8.3.10. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.001 mg/m ³ (Consexpo v4.1)	< 0.001
inhalative	systemic	long-term	< 0.001 mg/m ³ (Consexpo v4.1)	< 0.001
inhalative	local	long-term	< 0.001 mg/m ³ (Consexpo v4.1)	< 0.001

8.3.11. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	< 0.017 mg/kg bw/day (Consexpo v4.1)	< 0.001

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8.3.12. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.145 mg/m ³ (Consexpo v4.1)	0.06
inhalative	systemic	long-term	0.145 mg/m ³ (Consexpo v4.1)	0.056
inhalative	local	long-term	0.145 mg/m ³ (Consexpo v4.1)	0.38

8.3.13. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.43 mg/kg bw/day (Consexpo v4.1)	0.5

8.3.14. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.001 mg/m ³ (Consexpo v4.1)	< 0.001
inhalative	systemic	long-term	< 0.001 mg/m ³ (Consexpo v4.1)	< 0.001
inhalative	local	long-term	< 0.001 mg/m ³ (Consexpo v4.1)	< 0.001

8.3.15. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	< 0.017 mg/kg bw/day (Consexpo v4.1)	< 0.001

8.3.16. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.135 mg/m ³ (Con-	0.06

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			sexpo v4.1)	
inhalative	systemic	long-term	0.135 mg/m ³ (Consexpo v4.1)	0.052
inhalative	local	long-term	0.135 mg/m ³ (Consexpo v4.1)	0.36

8.3.17. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	1.58 mg/kg bw/day (Consexpo v4.1)	0.55

8.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 9: Industrial use; Manufacture of computer, electronic and optical products, electrical equipment (SU16); Wafer polishing.; Semiconductors (PC33)..

9.1. Title section

Exposure Scenario name	: Wafer polishing
Structured Short Title	: Industrial use; Manufacture of computer, electronic and optical products, electrical equipment (SU16); Wafer polishing.; Semiconductors (PC33)..

Environment		
CS 1	Industrial use, Wafer polishing	ERC4
Worker		
CS 2	Use in closed process	PROC1

9.2. Conditions of use affecting exposure

9.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 200 ton(s)/year
Daily amount per site	: 133 kg/day
Fraction of Regional tonnage used locally	: 0.2
Emission days	: 300
Technical and organisational conditions and measures	
Release fraction to air from process 0.005 Low environmental release	
Release fraction to wastewater from process 0.005 Low environmental release	

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Soil emission controls are not applicable as there is no direct release to soil.

Conditions and measures related to sewage treatment plant

STP type	: Municipal Sewage Treatment Plant
STP effluent	: 2,000 m3/d

Conditions and measures related to treatment of waste (including article waste)

Waste treatment	: Dispose of waste product or used containers according to local regulations.
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Other conditions affecting environmental exposure

Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

9.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product	: Liquid
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Amount used (or contained in articles), frequency and duration of use/exposure

Duration	: Covers daily exposures up to 8 hours
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Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use	: Indoor use
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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

9.3. Exposure estimation and reference to its source

9.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0.022 mg/L (ECETOC TRA environment v2.0)	0.71
Marine water	0.0022 mg/L (ECETOC TRA environment v2.0)	0.72
Freshwater sediment	0.082 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.71
Marine sediment	0.0082 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.72
Agricultural soil	0.0017 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.245
Sewage treatment plant	0.21 mg/L (ECETOC TRA environment v2.0)	0.03

9.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.064 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007
inhalative	systemic	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.003
dermal	systemic	long-term	0.343 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006

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inhalative	local	long-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	0.021
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9.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 10: Industrial use; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of fine chemicals (SU9); Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils; Refining.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

10.1. Title section

Exposure Scenario name	: Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils
Structured Short Title	: Industrial use; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of fine chemicals (SU9); Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils; Refining.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

Environment		
CS 1	Industrial use, Refining, Processing aid, Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils	ERC6b
Worker		
CS 2	Use in closed process, Batch process, Closed systems	PROC3
CS 3	Batch process, Use in semi-closed process with opportunity for exposure	PROC4
CS 4	Mixing operations, Batch process	PROC5
CS 5	Material transfers, Dedicated facility	PROC8b
CS 6	Laboratory activities	PROC15
CS 7	Use in closed process	PROC1

10.2. Conditions of use affecting exposure

10.2.1. Control of environmental exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

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Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 150 tonnes/year
Daily amount per site	: 47 kg/day
Fraction of Regional tonnage used locally	: 0.1
Emission days	: 320
Technical and organisational conditions and measures	
Ensure all waste water is collected and treated via a WWTP.	
Air emission controls are not applicable as there is no direct release to air.	
Release fraction to wastewater from process 0.01 Low environmental release	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Onsite Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

10.2.2. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

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Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operation is undertaken outdoors.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Outdoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

10.2.3. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours

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Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operation is undertaken outdoors.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

10.2.4. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics

Concentration after dilution for use maximum 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operation is undertaken outdoors.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

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Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

10.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers concentrations up to 70 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operation is undertaken outdoors.
Transfer via enclosed lines.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

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Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

10.2.6. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics

Concentration after dilution for use maximum 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Local exhaust ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.

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Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

10.2.7. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system. Ensure operation is undertaken outdoors.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Other conditions affecting workers exposure
Indoor or outdoor use : Outdoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

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10.3. Exposure estimation and reference to its source

10.3.1. Environmental release and exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Protection Target	Exposure estimate	RCR
Freshwater	0.031 mg/L (ECETOC TRA environment v2.0)	0.99
Marine water	0.0031 mg/L (ECETOC TRA environment v2.0)	0.99
Freshwater sediment	0.11 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.99
Marine sediment	0.011 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.99
Agricultural soil	0.0019 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.27
Sewage treatment plant	0.3 mg/L (ECETOC TRA environment v2.0)	0.042

10.3.2. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.01 mg/m ³ (Stoffenmanager v4.0)	0.001
inhalative	systemic	long-term	< 0.005 mg/m ³ (Stoffenmanager v4.0)	< 0.001
dermal	systemic	long-term	< 0.002 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	< 0.005 mg/m ³ (Stoffenmanager v4.0)	< 0.004

10.3.3. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.044 mg/m ³ (Stof-	< 0.005

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			fenmanager v4.0)	
inhalative	systemic	long-term	0.022 mg/m ³ (Stof-fenmanager v4.0)	< 0.003
dermal	systemic	long-term	0.024 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.022 mg/m ³ (Stof-fenmanager v4.0)	0.014

10.3.4. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.044 mg/m ³ (Stof-fenmanager v4.0)	< 0.005
inhalative	systemic	long-term	0.022 mg/m ³ (Stof-fenmanager v4.0)	< 0.003
dermal	systemic	long-term	0.048 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.022 mg/m ³ (Stof-fenmanager v4.0)	0.014

10.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.32 mg/m ³ (Stof-fenmanager v4.0)	0.035
inhalative	systemic	long-term	0.16 mg/m ³ (Stof-fenmanager v4.0)	0.015
dermal	systemic	long-term	0.48 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.009
inhalative	local	long-term	0.16 mg/m ³ (Stof-fenmanager v4.0)	0.1

10.3.6. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	short-term	0.09 mg/m ³ (Stof-fenmanager v4.0)	< 0.01
inhalative	systemic	long-term	0.045 mg/m ³ (Stof-fenmanager v4.0)	< 0.005
dermal	systemic	long-term	< 0.002 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.045 mg/m ³ (Stof-fenmanager v4.0)	0.029

10.3.7. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.012 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001

10.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 11: Industrial use; Manufacture of textiles, leather, fur (SU5); Processing aid.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Leather treatment products (PC23).; Textile dyes and impregnating products (PC34).

11.1. Title section

Exposure Scenario name	: Processing aid, Manufacture of textiles, leather, fur
Structured Short Title	: Industrial use; Manufacture of textiles, leather, fur (SU5); Processing aid.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).; Leather treatment products (PC23).; Textile dyes and impregnating products (PC34).

Environment		
CS 1	Industrial use, Processing aid, Manufacture of textiles, leather, fur	ERC4
Worker		
CS 2	Mixing operations, Batch process	PROC5
CS 3	Material transfers, Non-dedicated facility	PROC8a
CS 4	Material transfers, Dedicated facility	PROC8b
CS 5	Material transfers, Small scale, Dedicated equipment	PROC9
CS 6	Treatment by dipping and pouring	PROC13

11.2. Conditions of use affecting exposure

11.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 30 tonnes/year
Daily amount per site	: 7 kg/day
Fraction of Regional tonnage used locally	: 0.05

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Emission days	: 220
Technical and organisational conditions and measures	
Process designed to minimize releases to wastewater. Water - minimum efficiency of 90 %	
Release fraction to air from process 0.001 Low environmental release	
Release fraction to wastewater from process 0.002 Low environmental release	
0 Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

11.2.2. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation	

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Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Dermal - minimum efficiency of 90 %

When there is a potential for exposure:

Wear suitable respiratory protection.

Inhalation - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.

Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.

Avoid manual contact with contaminated tools and objects.

Ensure material transfers are under containment or extract ventilation.

Ensure operatives are trained to minimise exposures.

Assumes a good basic standard of occupational hygiene is implemented.

11.2.3. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Concentration after dilution for use maximum 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Good natural ventilation

Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

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Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

11.2.4. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation Transfer via enclosed lines.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin.

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Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

11.2.5. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics

Concentration after dilution for use maximum 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Good natural ventilation
Use in semi-automated and predominantly enclosed filling lines.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

11.2.6. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Concentration after dilution for use maximum 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Good natural ventilation

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.
Dermal - minimum efficiency of 90 %

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

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11.3. Exposure estimation and reference to its source

11.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0.0028 mg/L (ECETOC TRA environment v2.0)	0.091
Marine water	0.0015 mg/L (ECETOC TRA environment v2.0)	0.48
Freshwater sediment	0.01 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.091
Marine sediment	0.0055 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.48
Agricultural soil	0.00097 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.14
Sewage treatment plant	0.017 mg/L (ECETOC TRA environment v2.0)	< 0.003

11.3.2. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.68 mg/m ³ (Stofenmanager v4.0)	0.29
inhalative	systemic	long-term	0.67 mg/m ³ (Stofenmanager v4.0)	0.063
dermal	systemic	long-term	0.96 mg/kg dry weight (ECETOC TRA worker v2.0)	0.017
inhalative	local	long-term	0.67 mg/m ³ (Stofenmanager v4.0)	0.44

11.3.3. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.44 mg/m ³ (Stofenmanager v4.0)	0.048

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inhalative	systemic	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.01
dermal	systemic	long-term	0.019 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.072

11.3.4. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.44 mg/m ³ (Stof-fenmanager v4.0)	0.048
inhalative	systemic	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.01
dermal	systemic	long-term	< 0.01 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.072

11.3.5. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.2 mg/m ³ (Stof-fenmanager v4.0)	0.022
inhalative	systemic	long-term	0.05 mg/m ³ (Stof-fenmanager v4.0)	< 0.005
dermal	systemic	long-term	< 0.01 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.05 mg/m ³ (Stof-fenmanager v4.0)	0.033

11.3.6. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.92 mg/m ³ (Stof-	0.1

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			fenmanager v4.0)	
inhalative	systemic	long-term	0.23 mg/m ³ (Stof-fenmanager v4.0)	0.022
dermal	systemic	long-term	0.019 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.23 mg/m ³ (Stof-fenmanager v4.0)	0.15

11.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 12: Industrial use; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of other non-metallic mineral products, e.g. plasters, cement (SU13); Manufacture of chemical products.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

12.1. Title section

Exposure Scenario name	: Manufacture of chemical products
Structured Short Title	: Industrial use; Manufacture of bulk, large scale chemicals (including petroleum products) (SU8).; Manufacture of other non-metallic mineral products, e.g. plasters, cement (SU13); Manufacture of chemical products.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

Environment		
CS 1	Industrial use, Manufacture of chemical products	ERC4
Worker		
CS 2	Material transfers, Dedicated facility	PROC8b
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Industrial use, Spraying	PROC7
CS 5	Material transfers, Small scale, Dedicated equipment	PROC9
CS 6	Material transfers, Dedicated facility	PROC8b
CS 7	Rolling, Brushing	PROC10
CS 8	Closed systems, Elevated temperature	PROC22

12.2. Conditions of use affecting exposure

12.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Covers concentrations up to 57 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 300 ton(s)/year

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Daily amount per site	: 150 kg/day
Fraction of Regional tonnage used locally	: 0.15
Emission days	: 300
Technical and organisational conditions and measures	
Release fraction to air from process 0.05 Low environmental release	
Release fraction to wastewater from process < 0.001 Low environmental release	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
STP sludge treatment	: Do not use sludge as fertiliser. Sludge is disposed or recovered.
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 864,000 m3/d
Local freshwater dilution factor	: 1,000
Local marine water dilution factor	: 100

12.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics	
Covers concentrations up to 57 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Avoid carrying out operation for more than 1 hour.

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Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines. Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

12.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a predominantly closed system provided with extract ventilation. Local exhaust ventilation

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Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

12.2.4. Control of worker exposure: Industrial spraying (PROC7)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

12.2.5. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics

Concentration after dilution for use maximum 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Avoid carrying out operation for more than 15 minutes.

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Use in semi-automated and predominantly enclosed filling lines.
Local exhaust ventilation

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.
Use suitable eye protection.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Clean equipment and the work area every day.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

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12.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines. Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

12.2.7. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics
Concentration after dilution for use maximum 1 %
Physical form of product : Liquid

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Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Local exhaust ventilation	
Conditions and measures related to personal protection, hygiene and health evaluation	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

12.2.8. Control of worker exposure: Manufacturing and processing of minerals and/or metals at substantially elevated temperature (PROC22)

Product (article) characteristics	
Concentration after dilution for use maximum 1 %	
Physical form of product	: Solid, low dustiness
Temperature	: < 100 °C
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Avoid carrying out operation for more than 15 minutes.
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	

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Local exhaust ventilation
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Clean equipment and the work area every day. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

12.3. Exposure estimation and reference to its source

12.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0.0013 mg/L (ECETOC TRA environment v2.0)	0.043
Marine water	0.0024 mg/L (ECETOC TRA environment v2.0)	0.78
Freshwater sediment	0.005 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.043
Marine sediment	0.009 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.78
Agricultural soil	0.0032 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.32

12.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indica-	Exposure esti-	RCR
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		tor	mate	
inhalative	systemic	short-term	0.19 mg/m ³ (ECETOC TRA worker v2.0)	0.021
inhalative	systemic	long-term	< 0.096 mg/m ³ (ECETOC TRA worker v2.0)	0.009
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	< 0.096 mg/m ³ (ECETOC TRA worker v2.0)	0.062

12.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.007 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
inhalative	systemic	long-term	< 0.004 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	< 0.004 mg/m ³ (ECETOC TRA worker v2.0)	< 0.003

12.3.4. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.317 mg/m ³ (ECETOC TRA worker v2.0)	0.034
inhalative	systemic	long-term	0.158 mg/m ³ (ECETOC TRA worker v2.0)	0.015
dermal	systemic	long-term	42.9 mg/kg dry weight (ECETOC TRA worker v2.0)	0.74

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			TRA worker v2.0)	
inhalative	local	long-term	0.158 mg/m ³ (ECETOC TRA worker v2.0)	0.1

12.3.5. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.032 mg/m ³ (ECETOC TRA worker v2.0)	< 0.004
inhalative	systemic	long-term	< 0.016 mg/m ³ (ECETOC TRA worker v2.0)	< 0.002
dermal	systemic	long-term	6.86 mg/kg dry weight (ECETOC TRA worker v2.0)	0.12
inhalative	local	long-term	< 0.016 mg/m ³ (ECETOC TRA worker v2.0)	0.01

12.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	< 0.01 mg/m ³ (ECETOC TRA worker v2.0)	0.001
inhalative	systemic	long-term	< 0.005 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
dermal	systemic	long-term	6.86 mg/kg dry weight (ECETOC TRA worker v2.0)	0.12
inhalative	local	long-term	< 0.005 mg/m ³ (ECETOC TRA worker v2.0)	< 0.004

12.3.7. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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		tor	mate	
inhalative	systemic	short-term	0.12 mg/m ³ (ECETOC TRA worker v2.0)	0.013
inhalative	systemic	long-term	0.06 mg/m ³ (ECETOC TRA worker v2.0)	< 0.006
dermal	systemic	long-term	2.74 mg/kg dry weight (ECETOC TRA worker v2.0)	0.047
inhalative	local	long-term	0.06 mg/m ³ (ECETOC TRA worker v2.0)	0.04

12.3.8. Worker exposure: Manufacturing and processing of minerals and/or metals at substantially elevated temperature (PROC22)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.02 mg/m ³ (ECETOC TRA worker v2.0)	< 0.003
inhalative	systemic	long-term	0.02 mg/m ³ (ECETOC TRA worker v2.0)	< 0.001
dermal	systemic	long-term	2.83 mg/kg dry weight (ECETOC TRA worker v2.0)	0.049
inhalative	local	long-term	0.01 mg/m ³ (ECETOC TRA worker v2.0)	< 0.007

12.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 13: Industrial use; Coatings; Printing ink.; Coatings and paints, thinners, paint removers (PC9a).; Ink and toners (PC18).

13.1. Title section

Exposure Scenario name	: Coatings, Printing ink
Structured Short Title	: Industrial use; Coatings; Printing ink.; Coatings and paints, thinners, paint removers (PC9a).; Ink and toners (PC18).

Environment		
CS 1	Industrial use, Coatings, Printing ink	ERC4
Worker		
CS 2	Use in closed process	PROC1
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Batch process, Closed systems	PROC3
CS 5	Batch process, Use in semi-closed process with opportunity for exposure	PROC4
CS 6	Mixing operations, Batch process	PROC5
CS 7	Industrial use, Spraying	PROC7
CS 8	Material transfers, Non-dedicated facility	PROC8a
CS 9	Material transfers, Dedicated facility	PROC8b
CS 10	Rolling, Brushing	PROC10
CS 11	Treatment by dipping and pouring	PROC13

13.2. Conditions of use affecting exposure

13.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 20 tonnes/year

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Daily amount per site	: 91 kg/day
Fraction of Regional tonnage used locally	: 1
Emission days	: 220
Technical and organisational conditions and measures	
Release fraction to air from process 0.98 Worst case assumption	
Release fraction to wastewater from process 0.02 Low environmental release	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Onsite Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

13.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics	
Covers concentrations up to 1.4 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and	

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operation conditions followed.

Handle substance within a closed system.

Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.

Use eye protection according to EN 166.

When there is a potential for exposure:

Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.

Avoid manual contact with contaminated tools and objects.

Ensure material transfers are under containment or extract ventilation.

Ensure operatives are trained to minimise exposures.

Assumes a good basic standard of occupational hygiene is implemented.

13.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Covers concentrations up to 1.4 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Handle substance within a predominantly closed system provided with extract ventilation.

Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

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Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

13.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics

Covers concentrations up to 1.4 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

13.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers concentrations up to 1.4 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

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Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

13.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics	
Covers concentrations up to 1.4 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

13.2.7. Control of worker exposure: Industrial spraying (PROC7)

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Product (article) characteristics
Covers concentrations up to 1.4 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

13.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics
Covers concentrations up to 1.4 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure

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Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

13.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics	
Covers concentrations up to 1.4 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines.	
Clean equipment and the work area every day.	

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Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

13.2.10. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics
Covers concentrations up to 1.4 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin. Use eye protection according to EN 166.
When there is a potential for exposure: Wear suitable gloves tested to EN374.

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

13.2.11. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Covers concentrations up to 1.4 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable coveralls to prevent exposure to the skin.
Use eye protection according to EN 166.

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.

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Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

13.3. Exposure estimation and reference to its source

13.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0.013 mg/L (ECETOC TRA environment v2.0)	0.4
Marine water	0.0013 mg/L (ECETOC TRA environment v2.0)	0.41
Freshwater sediment	0.047 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.41
Marine sediment	0.0047 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.41
Agricultural soil	0.0039 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.44
Sewage treatment plant	0.11 mg/L (ECETOC TRA environment v2.0)	0.016

13.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	< 0.005 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001

13.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.096 mg/m ³ (Stofenmanager v4.0)	0.01
inhalative	systemic	long-term	0.024 mg/m ³ (Stof-	< 0.003

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			fenmanager v4.0)	
dermal	systemic	long-term	0.019 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.024 mg/m ³ (Stof-fenmanager v4.0)	0.016

13.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.096 mg/m ³ (Stof-fenmanager v4.0)	0.01
inhalative	systemic	long-term	0.024 mg/m ³ (Stof-fenmanager v4.0)	< 0.003
dermal	systemic	long-term	< 0.005 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.024 mg/m ³ (Stof-fenmanager v4.0)	0.016

13.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.44 mg/m ³ (Stof-fenmanager v4.0)	0.048
inhalative	systemic	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.01
dermal	systemic	long-term	0.096 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.002
inhalative	local	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.072

13.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.44 mg/m ³ (Stof-fenmanager v4.0)	0.048

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inhalative	systemic	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.01
dermal	systemic	long-term	0.192 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.001
inhalative	local	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.072

13.3.7. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	3.24 mg/m ³ (Stof-fenmanager v4.0)	0.35
inhalative	systemic	long-term	0.81 mg/m ³ (Stof-fenmanager v4.0)	0.077
dermal	systemic	long-term	0.06 mg/kg dry weight (ECETOC TRA worker v2.0)	0.001
inhalative	local	long-term	0.81 mg/m ³ (Stof-fenmanager v4.0)	0.53

13.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.44 mg/m ³ (Stof-fenmanager v4.0)	0.048
inhalative	systemic	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.01
dermal	systemic	long-term	0.192 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.004
inhalative	local	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.072

13.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.44 mg/m ³ (Stof-	0.048

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			fenmanager v4.0)	
inhalative	systemic	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.01
dermal	systemic	long-term	0.096 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.002
inhalative	local	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.072

13.3.10. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.44 mg/m ³ (Stof-fenmanager v4.0)	0.048
inhalative	systemic	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.01
dermal	systemic	long-term	0.384 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.007
inhalative	local	long-term	0.11 mg/m ³ (Stof-fenmanager v4.0)	0.072

13.3.11. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.2 mg/m ³ (Stof-fenmanager v4.0)	0.022
inhalative	systemic	long-term	0.05 mg/m ³ (Stof-fenmanager v4.0)	< 0.005
dermal	systemic	long-term	0.192 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.004
inhalative	local	long-term	0.05 mg/m ³ (Stof-fenmanager v4.0)	0.033

13.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 14: Industrial use; Manufacture of wood and wood products (SU6a); Processing aid - Polymerisation; powder; Coatings.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

14.1. Title section

Exposure Scenario name	: Processing aid - Polymerisation, powder, Coatings
Structured Short Title	: Industrial use; Manufacture of wood and wood products (SU6a); Processing aid - Polymerisation; powder; Coatings.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

Environment		
CS 1	Industrial use, Processing aid - Polymerisation, powder, Coatings	ERC6b
Worker		
CS 2	Material transfers, Dedicated facility	PROC8b
CS 3	Mixing operations, Batch process	PROC5
CS 4	Treatment by dipping and pouring	PROC13
CS 5	Batch process, Closed systems	PROC3
CS 6	Tabletting, compression, extrusion or pelletisation	PROC14

14.2. Conditions of use affecting exposure

14.2.1. Control of environmental exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 500 ton(s)/year
Daily amount per site	: 2273 ton(s)/day
Fraction of Regional tonnage used locally	: 1
Emission days	: 220

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Technical and organisational conditions and measures	
Air emission controls are not applicable as there is no direct release to air.	
Release fraction to wastewater from process < 0.001 Low environmental release	
Soil emission controls are not applicable as there is no direct release to soil.	
Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

14.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics	
Covers concentrations up to 70 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation Transfer via enclosed lines.	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	

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Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use eye protection to EN 166, designed to protect against liquid splashes.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

14.2.3. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics
Covers concentrations up to 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use eye protection to EN 166, designed to protect against liquid splashes.
Other conditions affecting workers exposure

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Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

14.2.4. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Wear suitable coveralls to prevent exposure to the skin. Use eye protection to EN 166, designed to protect against liquid splashes.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures.	

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Assumes a good basic standard of occupational hygiene is implemented.

14.2.5. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics
Covers concentrations up to 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use eye protection to EN 166, designed to protect against liquid splashes.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

14.2.6. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

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Product (article) characteristics
Covers concentrations up to 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use eye protection to EN 166, designed to protect against liquid splashes.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

14.3. Exposure estimation and reference to its source

14.3.1. Environmental release and exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Protection Target	Exposure estimate	RCR
Freshwater	0.004 mg/L (ECETOC TRA environment v2.0)	0.13

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Marine water	0.0024 mg/L (ECETOC TRA environment v2.0)	0.77
Freshwater sediment	0.015 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.13
Marine sediment	0.0088 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.77
Agricultural soil	0.001 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.14
Sewage treatment plant	0.029 mg/L (ECETOC TRA environment v2.0)	< 0.005

14.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.3 mg/m ³ (Stoffenmanager v4.0)	0.033
inhalative	systemic	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.014
dermal	systemic	long-term	0.34 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.1

14.3.3. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.4 mg/m ³ (Stoffenmanager v4.0)	0.15
inhalative	systemic	long-term	0.7 mg/m ³ (Stoffenmanager v4.0)	0.066
dermal	systemic	long-term	13.7 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.7 mg/m ³ (Stoffenmanager v4.0)	0.45

14.3.4. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.3 mg/m ³ (Stoffenmanager v4.0)	0.25
inhalative	systemic	long-term	1.15 mg/m ³ (Stoffenmanager v4.0)	0.11
dermal	systemic	long-term	6.86 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	1.15 mg/m ³ (Stoffenmanager v4.0)	0.75

14.3.5. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.92 mg/m ³ (Stoffenmanager v4.0)	0.32
inhalative	systemic	long-term	1.46 mg/m ³ (Stoffenmanager v4.0)	0.14
dermal	systemic	long-term	13.7 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	1.46 mg/m ³ (Stoffenmanager v4.0)	0.95

14.3.6. Worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.92 mg/m ³ (Stoffenmanager v4.0)	0.32
inhalative	systemic	long-term	1.46 mg/m ³ (Stoffenmanager v4.0)	0.14
dermal	systemic	long-term	0.34 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	1.46 mg/m ³ (Stoffenmanager v4.0)	0.95

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14.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.

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ES 15: Industrial use; Processing aid; Manufacture of chemical products.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

15.1. Title section

Exposure Scenario name	: Processing aid, Manufacture of chemical products
Structured Short Title	: Industrial use; Processing aid; Manufacture of chemical products.; Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents (PC20).

Environment		
CS 1	Industrial use of reactive processing aids, Manufacture of substances	ERC6b
Worker		
CS 2	Use in closed process	PROC1
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Batch process, Closed systems	PROC3
CS 5	Batch process, Use in semi-closed process with opportunity for exposure	PROC4
CS 6	Mixing operations, Batch process	PROC5
CS 7	Material transfers, Non-dedicated facility	PROC8a
CS 8	Material transfers, Dedicated facility	PROC8b
CS 9	Laboratory activities	PROC15

15.2. Conditions of use affecting exposure

15.2.1. Control of environmental exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 200 ton(s)/year
Daily amount per site	: 1111 ton(s)/day

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Fraction of Regional tonnage used locally	: 1
Emission days	: 180
Technical and organisational conditions and measures	
Process designed to minimize releases to air. Process designed to minimize releases to wastewater. Air - minimum efficiency of 90 % Water - minimum efficiency of 90 %	
Release fraction to air from process < 0.001 Low environmental release	
Release fraction to wastewater from process < 0.001 Low environmental release	
Release fraction to soil from process < 0.001 Low environmental release	
Conditions and measures related to sewage treatment plant	
STP type	: Municipal Sewage Treatment Plant
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

15.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours

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Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a closed system.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.
Use suitable eye protection.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

15.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Covers concentrations up to 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a predominantly closed system provided with extract ventilation.

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Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:

Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.

Use suitable eye protection.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.

Avoid manual contact with contaminated tools and objects.

Ensure material transfers are under containment or extract ventilation.

Ensure operatives are trained to minimise exposures.

Assumes a good basic standard of occupational hygiene is implemented.

15.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics

Covers concentrations up to 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:

Wear suitable gloves tested to EN374.

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Wear suitable coveralls to prevent exposure to the skin.
Use suitable eye protection.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

15.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers concentrations up to 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.
Use suitable eye protection.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

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Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

15.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics

Covers concentrations up to 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.
Use suitable eye protection.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

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15.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics
Covers concentrations up to 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

15.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Covers concentrations up to 70 %
Physical form of product : Liquid

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Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines. Good natural ventilation	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

15.2.9. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and	

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operation conditions followed.

Clean equipment and the work area every day.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:

Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.

Use suitable eye protection.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.

Avoid manual contact with contaminated tools and objects.

Ensure material transfers are under containment or extract ventilation.

Ensure operatives are trained to minimise exposures.

Assumes a good basic standard of occupational hygiene is implemented.

15.3. Exposure estimation and reference to its source

15.3.1. Environmental release and exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Protection Target	Exposure estimate	RCR
Freshwater	0.0046 mg/L (ECETOC TRA environment v2.0)	0.15
Marine water	0.0029 mg/L (ECETOC TRA environment v2.0)	0.93
Freshwater sediment	0.017 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.15
Marine sediment	0.011 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.93
Agricultural soil	0.001 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.15
Sewage treatment plant	0.035 mg/L (ECETOC TRA environment v2.0)	0.005

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15.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.34 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006

15.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.3 mg/m ³ (Stoffenmanager v4.0)	0.033
inhalative	systemic	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.014
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.1

15.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.3 mg/m ³ (Stoffenmanager v4.0)	0.033
inhalative	systemic	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.014
dermal	systemic	long-term	0.34 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.1

15.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
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inhalative	systemic	short-term	1.4 mg/m ³ (Stof-fenmanager v4.0)	0.15
inhalative	systemic	long-term	0.7 mg/m ³ (Stof-fenmanager v4.0)	0.066
dermal	systemic	long-term	0.686 mg/kg dry weight (ECETOC TRA worker v2.0)	0.012
inhalative	local	long-term	0.7 mg/m ³ (Stof-fenmanager v4.0)	0.45

15.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.4 mg/m ³ (Stof-fenmanager v4.0)	0.15
inhalative	systemic	long-term	0.7 mg/m ³ (Stof-fenmanager v4.0)	0.066
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.24
inhalative	local	long-term	0.7 mg/m ³ (Stof-fenmanager v4.0)	0.45

15.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.4 mg/m ³ (Stof-fenmanager v4.0)	0.15
inhalative	systemic	long-term	0.7 mg/m ³ (Stof-fenmanager v4.0)	0.066
dermal	systemic	long-term	1.37 mg/kg dry weight (ECETOC TRA worker v2.0)	0.24
inhalative	local	long-term	0.7 mg/m ³ (Stof-fenmanager v4.0)	0.45

15.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

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Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.3 mg/m ³ (Stof-fenmanager v4.0)	0.25
inhalative	systemic	long-term	1.15 mg/m ³ (Stof-fenmanager v4.0)	0.11
dermal	systemic	long-term	6.86 mg/kg dry weight (ECETOC TRA worker v2.0)	0.12
inhalative	local	long-term	1.15 mg/m ³ (Stof-fenmanager v4.0)	0.75

15.3.9. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.14 mg/m ³ (Stof-fenmanager v4.0)	0.015
inhalative	systemic	long-term	0.07 mg/m ³ (Stof-fenmanager v4.0)	< 0.007
dermal	systemic	long-term	0.34 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	0.07 mg/m ³ (Stof-fenmanager v4.0)	0.045

15.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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ES 16: Industrial use; Manufacture of fabricated metal products, except machinery and equipment (SU15).; Metal surface treatment products (PC14).

16.1. Title section

Exposure Scenario name	: Metal surface treatment products, including galvanic and electroplating products
Structured Short Title	: Industrial use; Manufacture of fabricated metal products, except machinery and equipment (SU15).; Metal surface treatment products (PC14).

Environment		
CS 1	Industrial use, Metal surface treatment products, including galvanic and electroplating products	ERC6b
Worker		
CS 2	Use in closed process	PROC1
CS 3	Use in semi-closed process with opportunity for exposure	PROC2
CS 4	Batch process, Closed systems	PROC3
CS 5	Batch process, Use in semi-closed process with opportunity for exposure	PROC4
CS 6	Mixing operations, Batch process	PROC5
CS 7	Industrial use, Spraying	PROC7
CS 8	Material transfers, Non-dedicated facility	PROC8a
CS 9	Material transfers, Dedicated facility	PROC8b
CS 10	Rolling, Brushing	PROC10
CS 11	Treatment by dipping and pouring	PROC13

16.2. Conditions of use affecting exposure

16.2.1. Control of environmental exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid

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Amount used (or contained in articles), frequency and duration of use/exposure	
Annual site tonnage	: 200 ton(s)/year
Daily amount per site	: 1111 ton(s)/day
Fraction of Regional tonnage used locally	: 1
Emission days	: 180
Technical and organisational conditions and measures	
Process designed to minimize releases to air. Process designed to minimize releases to wastewater. Air - minimum efficiency of 90 % Water - minimum efficiency of 90 %	
Release fraction to air from process < 0.001 Low environmental release	
Release fraction to wastewater from process < 0.001 Low environmental release	
Release fraction to soil from process < 0.001 Low environmental release	
Conditions and measures related to sewage treatment plant	
STP type	: Onsite wastewater treatment required.
STP effluent	: 2,000 m3/d
Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: Dispose of waste product or used containers according to local regulations.
Other conditions affecting environmental exposure	
Receiving surface water flow	: 18,000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100

16.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid

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Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Handle substance within a closed system.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

16.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics
Covers concentrations up to 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures

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Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Handle substance within a predominantly closed system provided with extract ventilation.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

When there is a potential for exposure:
Wear suitable gloves tested to EN374.

Wear suitable coveralls to prevent exposure to the skin.
Use suitable eye protection.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

16.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics

Covers concentrations up to 1 %

Physical form of product : Liquid

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Clean equipment and the work area every day.
Ensure regular inspection, cleaning and maintenance of equipment and machines.

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Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

16.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics
Covers concentrations up to 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.

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Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

16.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations.	

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Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

16.2.7. Control of worker exposure: Industrial spraying (PROC7)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Good natural ventilation	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Dermal - minimum efficiency of 90 %	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

16.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

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Product (article) characteristics
Covers concentrations up to 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

16.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics
Covers concentrations up to 25 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure

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Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Transfer via enclosed lines. Good natural ventilation	
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.	
Conditions and measures related to personal protection, hygiene and health evaluation	
When there is a potential for exposure: Wear suitable gloves tested to EN374.	
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.	
Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor use
Room size	: < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply	
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.	

16.2.10. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics	
Covers concentrations up to 1 %	
Physical form of product	: Liquid
Amount used (or contained in articles), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours
Technical and organisational conditions and measures	
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.	
Clean equipment and the work area every day.	

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Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.
Other conditions affecting workers exposure
Indoor or outdoor use : Indoor use
Room size : < 100 m ³
Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply
Segregate the activity away from other operations. Avoid manual contact with contaminated tools and objects. Ensure material transfers are under containment or extract ventilation. Ensure operatives are trained to minimise exposures. Assumes a good basic standard of occupational hygiene is implemented.

16.2.11. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics
Covers concentrations up to 1 %
Physical form of product : Liquid
Amount used (or contained in articles), frequency and duration of use/exposure
Duration : Covers daily exposures up to 8 hours
Technical and organisational conditions and measures
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Clean equipment and the work area every day. Ensure regular inspection, cleaning and maintenance of equipment and machines.
Conditions and measures related to personal protection, hygiene and health evaluation
When there is a potential for exposure: Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin. Use suitable eye protection.

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Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : < 100 m³

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Segregate the activity away from other operations.
Avoid manual contact with contaminated tools and objects.
Ensure material transfers are under containment or extract ventilation.
Ensure operatives are trained to minimise exposures.
Assumes a good basic standard of occupational hygiene is implemented.

16.3. Exposure estimation and reference to its source

16.3.1. Environmental release and exposure: Use of reactive processing aid at industrial site (no inclusion into or onto article) (ERC6b)

Protection Target	Exposure estimate	RCR
Freshwater	0.0046 mg/L (ECETOC TRA environment v2.0)	0.15
Marine water	0.0029 mg/L (ECETOC TRA environment v2.0)	0.93
Freshwater sediment	0.017 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.15
Marine sediment	0.011 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.93
Agricultural soil	0.001 mg/kg dry weight (d.w.) (ECETOC TRA environment v2.0)	0.15
Sewage treatment plant	0.035 mg/L (ECETOC TRA environment v2.0)	0.005

16.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
dermal	systemic	long-term	0.34 mg/kg dry weight (ECETOC TRA worker v2.0)	< 0.006

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16.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.3 mg/m ³ (Stoffenmanager v4.0)	< 0.004
inhalative	systemic	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.014
dermal	systemic	long-term	1.37 mg/kg bw/day (ECETOC TRA worker v2.0)	0.024
inhalative	local	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.1

16.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	0.3 mg/m ³ (Stoffenmanager v4.0)	0.033
inhalative	systemic	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.014
dermal	systemic	long-term	0.34 mg/kg bw/day (ECETOC TRA worker v2.0)	< 0.006
inhalative	local	long-term	0.15 mg/m ³ (Stoffenmanager v4.0)	0.1

16.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.4 mg/m ³ (Stoffenmanager v4.0)	0.15
inhalative	systemic	long-term	0.7 mg/m ³ (Stoffenmanager v4.0)	0.066
dermal	systemic	long-term	6.86 mg/kg bw/day (ECETOC TRA worker v2.0)	0.12
inhalative	local	long-term	0.7 mg/m ³ (Stof-	0.45

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			fenmanager v4.0)	
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16.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.4 mg/m ³ (Stoffenmanager v4.0)	0.15
inhalative	systemic	long-term	0.7 mg/m ³ (Stoffenmanager v4.0)	0.066
dermal	systemic	long-term	1.37 mg/kg bw/day (ECETOC TRA worker v2.0)	0.24
inhalative	local	long-term	0.7 mg/m ³ (Stoffenmanager v4.0)	0.45

16.3.7. Worker exposure: Industrial spraying (PROC7)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.92 mg/m ³ (Stoffenmanager v4.0)	0.32
inhalative	systemic	long-term	1.46 mg/m ³ (Stoffenmanager v4.0)	0.14
dermal	systemic	long-term	4.3 mg/kg bw/day (ECETOC TRA worker v2.0)	0.075
inhalative	local	long-term	1.46 mg/m ³ (Stoffenmanager v4.0)	0.95

16.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.4 mg/m ³ (Stoffenmanager v4.0)	0.15
inhalative	systemic	long-term	0.7 mg/m ³ (Stoffenmanager v4.0)	0.066
dermal	systemic	long-term	1.37 mg/kg bw/day (ECETOC TRA worker v2.0)	0.24

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inhalative	local	long-term	0.7 mg/m ³ (Stof-fenmanager v4.0)	0.45
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16.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.2 mg/m ³ (Stof-fenmanager v4.0)	0.13
inhalative	systemic	long-term	0.6 mg/m ³ (Stof-fenmanager v4.0)	0.057
dermal	systemic	long-term	6.86 mg/kg bw/day (ECETOC TRA worker v2.0)	0.12
inhalative	local	long-term	0.6 mg/m ³ (Stof-fenmanager v4.0)	0.4

16.3.10. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	1.4 mg/m ³ (Stof-fenmanager v4.0)	0.15
inhalative	systemic	long-term	0.7 mg/m ³ (Stof-fenmanager v4.0)	0.066
dermal	systemic	long-term	2.74 mg/kg bw/day (ECETOC TRA worker v2.0)	0.47
inhalative	local	long-term	0.7 mg/m ³ (Stof-fenmanager v4.0)	0.45

16.3.11. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure estimate	RCR
inhalative	systemic	short-term	2.92 mg/m ³ (Stof-fenmanager v4.0)	0.32
inhalative	systemic	long-term	1.46 mg/m ³ (Stof-fenmanager v4.0)	0.14
dermal	systemic	long-term	0.137 mg/kg bw/day (ECETOC TRA worker v2.0)	0.24

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inhalative	local	long-term	1.46 mg/m ³ (Stof- fenmanager v4.0)	0.95
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16.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

For further information, please contact sds-support@chemours.com.