

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

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

1.1 Product identifier

| | | |
|---------------------------|---|---|
| Trade name | : | Vazo™ 56 WSP |
| SDS-Identcode | : | 130000000566 |
| REACH Registration Number | : | 01-2119987319-20-0001 |
| Substance name | : | 2,2'-Azobis[2-methylpropionamidine] dihydrochloride |
| Index-No. | : | 611-053-00-X |
| EC-No. | : | 221-070-0 |

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

| | | |
|------------------------------------|---|--|
| Use of the Sub- stance/Mixture | : | Azo-based polymerisation initiator polymerisation initiators, For further information see Annex - Exposure scenario. |
| Recommended restrictions on use | : | Not applicable |

1.3 Details of the supplier of the safety data sheet

| | | |
|---|---|--|
| Company | : | Chemours Netherlands B.V. Baanhoekweg 22 3313 LA Dordrecht Netherlands |
| Telephone | : | +31-(0)-78-630-1011 |
| Telefax | : | +31-78-6163737 |
| E-mail address of person responsible for the SDS | : | sds-support@chemours.com |

1.4 Emergency telephone number

+(353)-19014670 (CHEMTREC - Recommended) ; +353-(01) 809 2166 (Poison Information
Center of Ireland)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|-----------------|------------------------------|------------------------------|---|
| Version 14.1 | Revision Date: 11.12.2023 | SDS Number: 1326760-00052 | Date of last issue: 05.05.2023 Date of first issue: 27.02.2017 |
|-----------------|------------------------------|------------------------------|---|

| | |
|--|---|
| Self-heating substances and mixtures, Category 1 | H251: Self-heating: may catch fire. |
| Acute toxicity, Category 4 | H302: Harmful if swallowed. |
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Short-term (acute) aquatic hazard, Category 1 | H400: Very toxic to aquatic life. |
| Long-term (chronic) aquatic hazard, Category 1 | H410: Very toxic to aquatic life with long lasting effects. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :
H251 Self-heating: may catch fire.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P391 Collect spillage.

Storage:

P407 Maintain air gap between stacks or pallets.
P413 Store bulk masses greater than 12 KG/ 26 LB at temperatures not exceeding < 25 °C/ < 77 °F.

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.

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

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.

Risk of explosion if heated under confinement.
Contact with dust can cause mechanical irritation or drying of the skin.
May form explosive dust-air mixture.

SECTION 3: Composition/information on ingredients

3.1 Substances

| | |
|----------------|---|
| Substance name | : 2,2'-Azobis[2-methylpropionamidine] dihydrochloride |
| Index-No. | : 611-053-00-X |
| EC-No. | : 221-070-0 |

Components

| Chemical name | CAS-No. EC-No. | Concentration (%) w/w) | M-Factor, SCL, ATE |
|---|------------------------|---------------------------|---|
| 2,2'-Azobis[2-methylpropionamidine] dihydrochloride | 2997-92-4 221-070-0 | >= 90 - <= 100 | M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity estimate Acute oral toxicity: 410 mg/kg |

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. Get medical attention if symptoms occur. |
| In case of skin contact | : In case of contact, immediately flush skin with soap and plenty |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

- of water.
Remove contaminated clothing and shoes.
Get medical attention.
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.
- If swallowed : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
Get medical attention.
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

- Symptoms : Skin contact may provoke the following symptoms:
Sensitisation
Rash
Swelling of tissue
Itching
Discomfort
Redness
- Eye contact may provoke the following symptoms
Pain
tearing
Swelling of tissue
Redness
Impairment of vision
- Risks : Harmful if swallowed.
May cause an allergic skin reaction.
Causes serious eye irritation.
- Contact with dust can cause mechanical irritation or drying of the skin.

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
Alcohol-resistant foam
- Unsuitable extinguishing : High volume water jet

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

media

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Do not use a solid water stream as it may scatter and spread fire.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Nitrogen oxides (NO_x)
Carbon oxides
Chlorine compounds

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 : Only trained personnel should re-enter the area.
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.
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 : Sweep up and shovel into suitable containers for disposal.
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Local or national regulations may apply to releases and dis-

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

posal 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 | : | Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. |
| Local/Total ventilation | : | Use only with adequate ventilation. If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation. |
| Advice on safe handling | : | Do not get on skin or clothing. Avoid breathing dust, fume, gas, mist, vapours or spray. 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 Prevent pressure build-up Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Keep away from combustible material. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. |
| 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. Contaminated work clothing should not be allowed out of the workplace. 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. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Maintain air gap between stacks/ pallets. |
|---|---|--|

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

Advice on common storage : Do not store with the following product types:
Self-reactive substances and mixtures
Organic peroxides
Oxidizing agents
Flammable liquids
Aerosol cans and lighters
Explosives
Gases
Very acutely toxic substances and mixtures

Recommended storage temperature : < 25 °C

Bulk storage mass : 12 kg

Further information on storage stability : Keep away from direct sunlight.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|-----------|-----------------|----------------------------|--------------------|
| 2,2'-Azobis[2-methylpropionamidine] dihydrochloride | Workers | Inhalation | Long-term systemic effects | 5.88 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0.084 mg/kg bw/day |
| | Workers | Skin contact | Acute systemic effects | 0.4 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 2.94 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 0.042 mg/kg bw/day |
| | Consumers | Skin contact | Acute systemic effects | 0.2 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 0.042 mg/kg bw/day |
| | Consumers | Ingestion | Acute systemic effects | 0.2 mg/kg bw/day |

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

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

| Substance name | Environmental Compartment | Value |
|---|---------------------------|--------------------------------|
| 2,2'-Azobis[2-methylpropionamidine] dihydrochloride | Fresh water | 3.6 µg/l |
| | Intermittent use/release | 36 µg/l |
| | Marine water | 0.36 µg/l |
| | Sewage treatment plant | 0.7 mg/l |
| | Fresh water sediment | 0.015 mg/kg dry weight (d.w.) |
| | Marine sediment | 0.0015 mg/kg dry weight (d.w.) |
| | Soil | 0.017 mg/kg dry weight (d.w.) |

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Apply measures to prevent dust explosions.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:
Safety goggles
Equipment should conform to I.S. EN 166

Hand protection
Material : Natural Rubber

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. 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 end of workday. Breakthrough time is not determined for the product. Change gloves often!

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

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 143

Filter type : Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : solid, crystalline

Colour : white

Odour : odourless

Odour Threshold : No data available

Melting point/freezing point : > 163 °C
Do not attempt to verify melting point; decomposition can be violent.

Initial boiling point and boiling range : No data available

Flammability (solid, gas) : May form explosive dust-air mixture.

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : The substance or mixture is not classified self-reactive.

Self-Accelerating decomposi- : > 75 °C

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|-----------------|------------------------------|------------------------------|---|
| Version 14.1 | Revision Date: 11.12.2023 | SDS Number: 1326760-00052 | Date of last issue: 05.05.2023 Date of first issue: 27.02.2017 |
|-----------------|------------------------------|------------------------------|---|

tion temperature (SADT)

pH : 7

Viscosity
Viscosity, kinematic : Not applicable

Solubility(ies)
Water solubility : 215 g/l (20 °C)

Partition coefficient: n-
octanol/water : No data available

Vapour pressure : Not applicable

Relative density : No data available

Bulk density : 380 kg/m³

Relative vapour density : Not applicable

Particle characteristics
Particle size : No data available

9.2 Other information

Explosives : Not explosive

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

Self-ignition : The substance or mixture is classified as self heating with the category 1.

Self-heating substances : Self-heating: may catch fire.

Evaporation rate : Not applicable

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

SECTION 10: Stability and reactivity

10.1 Reactivity

Self-heating: may catch fire.

10.2 Chemical stability

Follow precautionary advice and avoid incompatible materials and conditions

10.3 Possibility of hazardous reactions

Hazardous reactions : May form explosive dust-air mixture.
Can react with strong oxidizing agents.
May explode under confinement.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 410 mg/kg
Method: Calculation method

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

Acute oral toxicity : LD50 (Rat): 410 mg/kg

Acute dermal toxicity : LD50 (Rat): > 3,780 mg/kg
Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified based on available information.

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

| | | |
|---------|---|-------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

| | | |
|---------|---|---|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 405 |
| Result | : | Irritation to eyes, reversing within 7 days |

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

| | | |
|-----------------|---|-------------------|
| Test Type | : | Maximisation Test |
| Exposure routes | : | Skin contact |
| Species | : | Guinea pig |
| Result | : | positive |

| | | |
|------------|---|---|
| Assessment | : | Probability or evidence of skin sensitisation in humans |
|------------|---|---|

Germ cell mutagenicity

Not classified based on available information.

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

| | | |
|-----------------------|---|--|
| Genotoxicity in vitro | : | Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
|-----------------------|---|--|

| |
|--|
| Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative |
|--|

| |
|--|
| Test Type: in vitro micronucleus test Method: OECD Test Guideline 487 Result: negative |
|--|

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative

Effects on foetal development : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

Species : Rat
NOAEL : 25 mg/kg
Application Route : Ingestion
Exposure time : 28 Days
Method : OECD Test Guideline 407

Aspiration toxicity

Not classified based on available information.

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

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.

Experience with human exposure

Product:

Skin contact : Symptoms: Irritation, Itching, Redness, Rash, Swelling of tissue, Sensitisation

Eye contact : Symptoms: Irritation, Pain, Blurred vision

SECTION 12: Ecological information

12.1 Toxicity

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 570 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.5 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 : 360 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 11 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

12.3 Bioaccumulative potential

Components:

2,2'-Azobis[2-methylpropionamidine] dihydrochloride:

Partition coefficient: n-octanol/water : log Pow: < 0.3

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.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

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 : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

| | |
|------|-----------|
| ADN | : UN 3088 |
| ADR | : UN 3088 |
| RID | : UN 3088 |
| IMDG | : UN 3088 |
| IATA | : UN 3088 |

14.2 UN proper shipping name

| | |
|------|--|
| ADN | : SELF-HEATING SOLID, ORGANIC, N.O.S. (2,2'-Azobis[2-methylpropionamidine] dihydrochloride) |
| ADR | : SELF-HEATING SOLID, ORGANIC, N.O.S. (2,2'-Azobis[2-methylpropionamidine] dihydrochloride) |
| RID | : SELF-HEATING SOLID, ORGANIC, N.O.S. (2,2'-Azobis[2-methylpropionamidine] dihydrochloride) |
| IMDG | : SELF-HEATING SOLID, ORGANIC, N.O.S. (2,2'-Azobis[2-methylpropionamidine] dihydrochloride) |
| IATA | : Self-heating solid, organic, n.o.s. (2,2'-Azobis[2-methylpropionamidine] dihydrochloride) |

14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|------|-------|------------------|
| ADN | : 4.2 | |
| ADR | : 4.2 | |
| RID | : 4.2 | |
| IMDG | : 4.2 | |
| IATA | : 4.2 | |

14.4 Packing group

| | |
|------------------------------|-------|
| ADN | |
| Packing group | : II |
| Classification Code | : S2 |
| Hazard Identification Number | : 40 |
| Labels | : 4.2 |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

ADR

Packing group : II
Classification Code : S2
Hazard Identification Number : 40
Labels : 4.2
Tunnel restriction code : (D/E)

RID

Packing group : II
Classification Code : S2
Hazard Identification Number : 40
Labels : 4.2

IMDG

Packing group : II
Labels : 4.2
EmS Code : F-A, S-J

IATA (Cargo)

Packing instruction (cargo aircraft) : 470
Packing group : II
Labels : Spontaneously Combustible

IATA (Passenger)

Packing instruction (passenger aircraft) : 467
Packing group : II
Labels : Spontaneously Combustible

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

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.

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

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
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.

| | | | |
|----|--------------------------|---------------------|---------------------|
| E1 | ENVIRONMENTAL HAZARDS | Quantity 1 100 t | Quantity 2 200 t |
|----|--------------------------|---------------------|---------------------|

Other regulations:

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

SECTION 16: Other information

Other information : Vazo™ and any associated logos are trademarks or copy-rights of The Chemours Company FC, LLC.
Chemours™ and the Chemours Logo are trademarks of The Chemours Company.
Before use read Chemours safety information.
For further information contact the local Chemours office or nominated distributors.

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 other abbreviations

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 : Internal technical data, data from raw material SDSs, OECD

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

compile the Safety Data
Sheet

eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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 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

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

Annex: Exposure Scenarios

Table of Contents

| Number | Title |
|--------|--|
| ES1 | Industrial use; Processing aid - Polymerisation. |
| ES2 | Industrial use; Processing aid - Polymerisation; Closed systems. |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

ES 1: Industrial use; Processing aid - Polymerisation.

1.1. Title section

| | |
|------------------------|--|
| Exposure Scenario name | : Polymerisation |
| Structured Short Title | : Industrial use; Processing aid - Polymerisation. |

| Environment | | |
|-------------|---|--------|
| CS 1 | Processing aid - Polymerisation | ERC6d |
| Worker | | |
| CS 2 | Mixing operations, Batch process | PROC5 |
| CS 3 | Use in closed process | PROC1 |
| CS 4 | Use in semi-closed process with opportunity for exposure | PROC2 |
| CS 5 | Batch process, Use in semi-closed process with opportunity for exposure | PROC3 |
| CS 6 | Manufacture of substance | PROC4 |
| CS 7 | Material transfers, Non-dedicated facility | PROC8a |
| CS 8 | Material transfers, Dedicated facility | PROC8b |
| CS 9 | Material transfers, Small scale | PROC9 |
| CS 10 | Laboratory activities | PROC15 |

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6d)

| Product (article) characteristics | |
|--|-------------------|
| Physical form of product | : solid |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Annual amount per site | : 40 tonnes/year |
| Daily amount per site | : 0.13 tonnes/day |
| Emission days | : 300 |
| Technical and organisational conditions and measures | |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

| | |
|---|--|
| Process designed to minimize releases to wastewater. Suitable technique(s) to limit releases to water: Use in closed process | |
| Process designed to minimize releases to air. Suitable technique(s) to limit releases to air: Wet scrubber for elimination of volatile components from waste gases Wet scrubber – gas removal Wet scrubber – particle removal Air filtration – particle removal Waste gas treatment by thermal oxidation Vapour recovery (e.g. adsorption) or other technique for reducing volatiles emissions (incineration, thermal oxidation) Air - minimum efficiency of 98 % | |
| Soil emission controls are not applicable as there is no direct release to soil. | |
| Process with efficient use of raw materials. | |
| Conditions and measures related to sewage treatment plant | |
| STP type | : Onsite Sewage Treatment Plant |
| STP sludge treatment | : Controlled application of sewage sludge to agricultural soil |
| STP effluent | : 2,000 m3/d |
| Other conditions affecting environmental exposure | |
| Receiving surface water flow | : 18,000 m3/d |

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

| | |
|--|--|
| Product (article) characteristics | |
| Covers concentrations up to 1 % | |
| Physical form of product | : Solid, low dustiness |
| 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 | |
| Local exhaust ventilation Inhalation - minimum efficiency of 90 % | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. | |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

Ensure operatives are trained to minimise exposures.

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 face shield.
Tightly fitting safety goggles

Other conditions affecting workers exposure

Body parts exposed : Palms of both hands (480 cm²)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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 1 %

Physical form of product : Solid, low dustiness

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

Local exhaust ventilation
Inhalation - minimum efficiency of 90 %

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
Inhalation - minimum efficiency of 30 %

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operatives are trained to minimise exposures.

Handle substance within a closed system.

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 face shield.

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

| | |
|--|--|
| Tightly fitting safety goggles | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : Indoor use |
| Temperature | : < 40 °C |

1.2.4. 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 | : Solid, low dustiness |
| 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 | |
| Local exhaust ventilation Inhalation - minimum efficiency of 90 % | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. | |
| 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 % | |
| When there is a potential for exposure: Wear suitable face shield. Tightly fitting safety goggles | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : Indoor use |
| Temperature | : < 40 °C |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

1.2.5. 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 | : Solid, low dustiness |
| 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 | |
| Local exhaust ventilation Inhalation - minimum efficiency of 90 % | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. | |
| 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 % | |
| When there is a potential for exposure: Wear suitable face shield. Tightly fitting safety goggles | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : Indoor use |
| Temperature | : < 40 °C |

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

| Product (article) characteristics | |
|-----------------------------------|--|
| Covers concentrations up to 1 % | |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

| | |
|--|--|
| Physical form of product | : Solid, low dustiness |
| 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 | |
| Local exhaust ventilation Inhalation - minimum efficiency of 90 % | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. | |
| 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 face shield. Tightly fitting safety goggles | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : Indoor use |
| Temperature | : < 40 °C |

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

| | |
|--|--|
| Product (article) characteristics | |
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid, medium dustiness |
| 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 | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operatives are trained to minimise exposures.

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

When there is a potential for exposure:
Wear suitable face shield.
Tightly fitting safety goggles

Other conditions affecting workers exposure

| | | |
|-----------------------|---|----------------|
| Body parts exposed | : | Two hands only |
| Indoor or outdoor use | : | Indoor use |
| Temperature | : | < 40 °C |

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

Product (article) characteristics

Covers concentrations up to 100 %

| | | |
|--------------------------|---|-------------------------|
| Physical form of product | : | Solid, medium dustiness |
|--------------------------|---|-------------------------|

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

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
Inhalation - minimum efficiency of 30 %

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operatives are trained to minimise exposures.

Transfer via enclosed lines.

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

When there is a potential for exposure:
Wear suitable face shield.
Tightly fitting safety goggles

Other conditions affecting workers exposure

| | | |
|--------------------|---|----------------|
| Body parts exposed | : | Two hands only |
|--------------------|---|----------------|

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

| | | |
|-----------------------|---|------------|
| Indoor or outdoor use | : | Indoor use |
| Temperature | : | < 40 °C |

1.2.9. 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 100 % |
| Physical form of product : Solid, medium dustiness |
| 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 |
| Local exhaust ventilation Inhalation - minimum efficiency of 90 % |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. |
| Use in semi-automated and predominantly enclosed filling lines. |
| Conditions and measures related to personal protection, hygiene and health evaluation |
| When there is a potential for exposure: Wear suitable face shield. Tightly fitting safety goggles |
| Other conditions affecting workers exposure |
| Body parts exposed : Palms of both hands (480 cm ²) |
| Indoor or outdoor use : Indoor use |
| Temperature : < 40 °C |

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

| Product (article) characteristics |
|-----------------------------------|
| Covers concentrations up to 100 % |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

| | |
|--|--|
| Physical form of product | : Solid, medium dustiness |
| 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 | |
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. | |
| 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 face shield. Tightly fitting safety goggles | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : One hand face only (240cm ²) |
| Indoor or outdoor use | : Indoor use |
| Temperature | : < 40 °C |

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6d)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Water | 0.006 kg/day | ECETOC TRA |
| Air | 0.91 kg/day | ECETOC TRA |
| Soil | 0 kg/day | |

| Protection Target | Exposure estimate | RCR |
|------------------------|------------------------|--------|
| Freshwater | 0.000352 mg/L (EUSES) | 0.704 |
| Marine water | 0.0000348 mg/L (EUSES) | 0.697 |
| Sewage treatment plant | 0.00324 mg/L (EUSES) | < 0.01 |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

| | | |
|----------------------------------|------------------------------------|--------|
| Man via environment - Inhalation | 0.000213 mg/m ³ (EUSES) | < 0.01 |
| Man via environment - Oral | 0.02 mg/kg bw/day (EUSES) | 0.471 |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|---|--------|
| inhalative | systemic | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |
| dermal | systemic | long-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.393 |
| dermal | systemic | short-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.083 |

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 | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |
| dermal | systemic | long-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.393 |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

1.3.4. 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 | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

| | | | | |
|--------|----------|------------|---|---------|
| dermal | systemic | long-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.393 |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

1.3.5. 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 | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |
| dermal | systemic | long-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.393 |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--|---------|
| inhalative | systemic | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |
| dermal | systemic | long-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.393 |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

1.3.7. 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 | long-term | 0.7 mg/m ³ (ECETOC TRA worker v3) | 0.119 |
| dermal | systemic | long-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.393 |
| dermal | systemic | short-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.083 |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|---|---------|
| inhalative | systemic | long-term | < 0.7 mg/m ³ (ECETOC TRA worker v3) | < 0.119 |
| dermal | systemic | long-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.393 |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

1.3.9. 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 | long-term | 0.35 mg/m ³ (ECETOC TRA worker v3) | 0.06 |
| dermal | systemic | long-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.393 |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

| | | | | |
|--------|----------|------------|---|-------|
| | | | v2.1) | |
| dermal | systemic | short-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.083 |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--|-------|
| inhalative | systemic | long-term | 0.5 mg/m ³ (ECETOC TRA worker v3) | 0.085 |
| dermal | systemic | long-term | 0.034 mg/kg bw/day (ECETOC TRA worker v3) | 0.405 |
| dermal | systemic | short-term | 0.066 mg/kg bw/day (RISKOFDERM v2.1) | 0.165 |

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.

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

ES 2: Industrial use; Processing aid - Polymerisation; Closed systems.

2.1. Title section

| | |
|-------------------------------|--|
| Exposure Scenario name | : Polymerisation, Closed systems |
| Structured Short Title | : Industrial use; Processing aid - Polymerisation; Closed systems. |

| Environment | | |
|--------------|--|--------|
| CS 1 | Processing aid - Polymerisation, Closed systems | ERC6d |
| Worker | | |
| CS 2 | Mixing operations, Batch process | PROC5 |
| CS 3 | Use in closed process | PROC1 |
| CS 4 | Use in semi-closed process with opportunity for exposure | PROC2 |
| CS 5 | Batch process, Use in semi-closed process with opportunity for exposure | PROC3 |
| CS 6 | Manufacture of substance | PROC4 |
| CS 7 | Material transfers, Non-dedicated facility | PROC8a |
| CS 8 | Material transfers, Dedicated facility | PROC8b |
| CS 9 | Material transfers, Small scale | PROC9 |
| CS 10 | Laboratory activities | PROC15 |

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6d)

| Product (article) characteristics | |
|--|-------------------|
| Physical form of product | : solid |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Annual amount per site | : 100 tonnes/year |
| Daily amount per site | : 0.3 tonnes/day |
| Emission days | : 300 |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

| Technical and organisational conditions and measures | |
|---|--|
| Process designed to minimize releases to air. Suitable technique(s) to limit releases to air: Wet scrubber for elimination of volatile components from waste gases Wet scrubber – gas removal Wet scrubber – particle removal Air filtration – particle removal Waste gas treatment by thermal oxidation Vapour recovery (e.g. adsorption) or other technique for reducing volatiles emissions (incineration, thermal oxidation) Air - minimum efficiency of 99 % | |
| Soil emission controls are not applicable as there is no direct release to soil. | |
| Process optimized for highly efficient use of raw materials. | |
| Conditions and measures related to sewage treatment plant | |
| STP type | : Onsite Sewage Treatment Plant |
| STP sludge treatment | : Controlled application of sewage sludge to agricultural soil |
| STP effluent | : 2,000 m3/d |
| Other conditions affecting environmental exposure | |
| Receiving surface water flow | : 18,000 m3/d |

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

| Product (article) characteristics | |
|--|--|
| Covers concentrations up to 1 % | |
| Physical form of product | : Solid, low dustiness |
| 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 | |
| Local exhaust ventilation Inhalation - minimum efficiency of 90 % | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. | |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

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 face shield.
Tightly fitting safety goggles

Other conditions affecting workers exposure

Body parts exposed : Palms of both hands (480 cm²)

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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 1 %

Physical form of product : Solid, low dustiness

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

Local exhaust ventilation
Inhalation - minimum efficiency of 90 %

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
Inhalation - minimum efficiency of 30 %

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operatives are trained to minimise exposures.

Handle substance within a closed system.

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 face shield.
Tightly fitting safety goggles

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

Other conditions affecting workers exposure

| | | |
|-----------------------|---|--|
| Body parts exposed | : | Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : | Indoor use |
| Temperature | : | < 40 °C |

2.2.4. 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 : Solid, low dustiness

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

Local exhaust ventilation
Inhalation - minimum efficiency of 90 %

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).
Inhalation - minimum efficiency of 30 %

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure operatives are trained to minimise exposures.

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 %

When there is a potential for exposure:
Wear suitable face shield.
Tightly fitting safety goggles

Other conditions affecting workers exposure

| | | |
|-----------------------|---|--|
| Body parts exposed | : | Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : | Indoor use |
| Temperature | : | < 40 °C |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

2.2.5. 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 | : Solid, low dustiness |
| 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 | |
| Local exhaust ventilation Inhalation - minimum efficiency of 90 % | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. | |
| 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 % | |
| When there is a potential for exposure: Wear suitable face shield. Tightly fitting safety goggles | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palms of both hands (480 cm2) |
| Indoor or outdoor use | : Indoor use |
| Temperature | : < 40 °C |

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

| Product (article) characteristics | |
|-----------------------------------|------------------------|
| Covers concentrations up to 1 % | |
| Physical form of product | : Solid, low dustiness |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

| | |
|--|--|
| 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 | |
| Local exhaust ventilation Inhalation - minimum efficiency of 90 % | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. | |
| 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 face shield. Tightly fitting safety goggles | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : Indoor use |
| Temperature | : < 40 °C |

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

| | |
|--|--|
| Product (article) characteristics | |
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid, medium dustiness |
| 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 | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |
| Supervision in place to check that the risk management measures in place are being used correctly and | |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

operation conditions followed.

Ensure operatives are trained to minimise exposures.

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

When there is a potential for exposure:

Wear suitable face shield.

Tightly fitting safety goggles

Other conditions affecting workers exposure

Body parts exposed : Two hands only

Indoor or outdoor use : Indoor use

Temperature : < 40 °C

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

Product (article) characteristics

Covers concentrations up to 100 %

Physical form of product : Solid, medium dustiness

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

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Inhalation - minimum efficiency of 30 %

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

Ensure operatives are trained to minimise exposures.

Transfer via enclosed lines.

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

When there is a potential for exposure:

Wear suitable face shield.

Tightly fitting safety goggles

Other conditions affecting workers exposure

Body parts exposed : Two hands only

Indoor or outdoor use : Indoor use

SAFETY DATA SHEET

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



Vazo™ 56 WSP

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 05.05.2023 |
| 14.1 | 11.12.2023 | 1326760-00052 | Date of first issue: 27.02.2017 |

| | | |
|-------------|---|---------|
| Temperature | : | < 40 °C |
|-------------|---|---------|

2.2.9. 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 100 % | |
| Physical form of product | : Solid, medium dustiness |
| 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 | |
| Local exhaust ventilation Inhalation - minimum efficiency of 90 % | |
| Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Inhalation - minimum efficiency of 30 % | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. | |
| Use in semi-automated and predominantly enclosed filling lines. | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| When there is a potential for exposure: Wear suitable face shield. Tightly fitting safety goggles | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : Indoor use |
| Temperature | : < 40 °C |

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

| Product (article) characteristics | |
|-----------------------------------|---------------------------|
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid, medium dustiness |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

| | |
|--|--|
| 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 | |
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). | |
| Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed. Ensure operatives are trained to minimise exposures. | |
| 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 face shield. Tightly fitting safety goggles | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : One hand face only (240cm ²) |
| Indoor or outdoor use | : Indoor use |
| Temperature | : < 40 °C |

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6d)

| Release route | Release rate | Release estimation method |
|---------------|--------------|---------------------------|
| Water | 0 kg/day | ECETOC TRA |
| Air | 1.05 kg/day | ECETOC TRA |
| Soil | 0 kg/day | |

| Protection Target | Exposure estimate | RCR |
|----------------------------------|------------------------------------|--------|
| Freshwater | 0.0000277 mg/L (EUSES) | 0.055 |
| Marine water | 0.0000024 mg/L (EUSES) | 0.048 |
| Sewage treatment plant | 0 mg/L (EUSES) | < 0.01 |
| Man via environment - Inhalation | 0.000267 mg/m ³ (EUSES) | < 0.01 |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

| | | |
|----------------------------|----------------------------|-------|
| Man via environment - Oral | 0.025 mg/kg bw/day (EUSES) | 0.588 |
|----------------------------|----------------------------|-------|

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|---|--------|
| inhalative | systemic | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |
| dermal | systemic | long-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.393 |
| dermal | systemic | short-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.083 |

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 | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |
| dermal | systemic | long-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.393 |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

2.3.4. 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 | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |
| dermal | systemic | long-term | < 0.033 mg/kg | < 0.393 |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

| | | | | |
|--------|----------|------------|---|---------|
| | | | bw/day (RISKOFDERM v2.1) | |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

2.3.5. 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 | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |
| dermal | systemic | long-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.393 |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--|---------|
| inhalative | systemic | long-term | < 0.004 mg/m ³ (ECETOC TRA worker v3) | < 0.01 |
| dermal | systemic | long-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.393 |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

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

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|---|-------|
| inhalative | systemic | long-term | 0.7 mg/m ³ (ECETOC TRA worker v3) | 0.119 |
| dermal | systemic | long-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.393 |
| dermal | systemic | short-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.083 |

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|---|---------|
| inhalative | systemic | long-term | < 0.7 mg/m ³ (ECETOC TRA worker v3) | < 0.119 |
| dermal | systemic | long-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.393 |
| dermal | systemic | short-term | < 0.033 mg/kg bw/day (RISKOFDERM v2.1) | < 0.083 |

2.3.9. 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 | long-term | 0.35 mg/m ³ (ECETOC TRA worker v3) | 0.06 |
| dermal | systemic | long-term | 0.033 mg/kg bw/day (RISKOFDERM v2.1) | 0.393 |
| dermal | systemic | short-term | 0.033 mg/kg bw/day | 0.083 |

SAFETY DATA SHEET

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



Vazo™ 56 WSP

Version 14.1 Revision Date: 11.12.2023 SDS Number: 1326760-00052 Date of last issue: 05.05.2023
Date of first issue: 27.02.2017

| | | | | |
|--|--|--|-------------------|--|
| | | | (RISKOFDERM v2.1) | |
|--|--|--|-------------------|--|

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

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|---|-------|
| inhalative | systemic | long-term | 0.5 mg/m ³ (ECETOC TRA worker v3) | 0.085 |
| dermal | systemic | long-term | 0.034 mg/kg bw/day (ECETOC TRA worker v3) | 0.405 |
| dermal | systemic | short-term | 0.066 mg/kg bw/day (RISKOFDERM v2.1) | 0.165 |

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.