

# SAFETY DATA SHEET

## Glyclean™ D99



Version 4.0	Revision Date: 2023/10/30	SDS Number (Internal): 11093392-00005	Date of last issue: 2023/08/11 Date of first issue: 2022/11/21
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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Glyclean™ D99

SDS-Identcode : 130000147739

#### Recommended use of the chemical and restrictions on use

Recommended use : Biocidal product

Restrictions on use : Not applicable

#### Manufacturer or supplier's details

Company : PureTech Scientific LLC

Address : 901 West DuPont Avenue, Belle, VW 25015, United States of America

Telephone : 1-877-215-5999

Emergency telephone number : 080-880-0455 access code 336264

E-mail address : sds-support@puretechscientific.com

Telefax : 1-304-357-1364

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Inhalation) : Category 4

Skin corrosion/irritation : Category 1B

Serious eye damage/eye irritation : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

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**Hazard statements** : H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.

**Precautionary statements** : **Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
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 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
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.  
P363 Wash contaminated clothing before reuse.

**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents/ container according to waste-related laws

### Other hazards which do not result in classification

Corrosive to the respiratory tract.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

### Components

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
Glycolic acid	Acetic acid, hydroxy-	79-14-1	>= 90 - <= 100

## 4. FIRST AID MEASURES

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- |                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                              | : In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.                                                                                                                                                                                                                                                                                                                                                                                      |
| In case of eye contact                                      | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.<br>If easy to do, remove contact lens, if worn.<br>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.<br>Get medical attention immediately.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse.                                                                                                                                                                                                                                                                                        |
| If inhaled                                                  | : If inhaled, remove to fresh air.<br>If not breathing, give artificial respiration.<br>If breathing is difficult, give oxygen.<br>Get medical attention immediately.                                                                                                                                                                                                                                                                                                                                                                         |
| If swallowed                                                | : If swallowed, DO NOT induce vomiting.<br>If vomiting occurs have person lean forward.<br>Call a physician or poison control centre immediately.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person.                                                                                                                                                                                                                                                                                             |
| Most important symptoms and effects, both acute and delayed | : Inhalation may provoke the following symptoms:<br>Cough<br>Shortness of breath<br>Pain<br>Irritation<br>Skin contact may provoke the following symptoms:<br>Irritation<br>Rash<br>Necrosis<br>Discomfort<br>Eye contact may provoke the following symptoms<br>Corrosion<br>Ulceration<br>Severe irritation<br>Ingestion may provoke the following symptoms:<br>Gastrointestinal discomfort<br>Nausea<br>Vomiting<br>Diarrhoea<br>Causes serious eye damage.<br>Harmful if inhaled.<br>Causes severe burns.<br>Causes digestive tract burns. |

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Corrosive to respiratory system.

- |                            |   |                                                                                                                                                                             |
|----------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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). |
| Notes to physician         | : | Treat symptomatically and supportively.                                                                                                                                     |
- 

### 5. FIREFIGHTING MEASURES

#### Suitable and unsuitable extinguishing media

- |                                               |   |                                                                                                                                                                                                                                                 |
|-----------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : | Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical                                                                                                                                                      |
| Unsuitable extinguishing media                | : | None known.                                                                                                                                                                                                                                     |
| Specific hazards during fire-fighting         | : | Exposure to combustion products may be a hazard to health.                                                                                                                                                                                      |
| Hazardous combustion products                 | : | Carbon oxides                                                                                                                                                                                                                                   |
| Specific extinguishing methods                | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.                                                                                                                                            |
- 

### 6. ACCIDENTAL RELEASE MEASURES

- |                                                                     |   |                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).                                                                              |
| Environmental precautions                                           | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for                                           | : | Surround spill with absorbents and place a damp covering                                                                                                                                                                          |

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containment and cleaning up over the area to minimise entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbent. 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.

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### 7. HANDLING AND STORAGE

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. Avoid breathing dust, fume, gas, mist, vapours or spray. Do not breathe dust or 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.
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents
Recommended storage temperature	:	> 10 °C

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Carbon dioxide	124-38-9	TWA	5,000 ppm	KR OEL
		STEL	30,000 ppm	KR OEL
		TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH

**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. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

**Respiratory protection** : Use respiratory protection (gas mask) unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

**Filter type** : Inorganic gas/vapour type

**Eye protection** : Wear the following personal protective equipment:  
Chemical resistant goggles must be worn.  
If splashes are likely to occur, wear:  
Face-shield

#### 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 end of workday.

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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).
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.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: crystalline
Colour	: colourless
Odour	: slight
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: > 78 °C
Initial boiling point and boiling range	: 169 °C
Flash point	: > 100 °C
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not classified as a flammability hazard, Not expected to form explosive dust-air mixtures.
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: 0.0041 hPa (25 °C)

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Solubility(ies)	
Water solubility	: > 300 g/l (22 °C)
Relative vapour density	: Not applicable
Relative density	: 1.36 (26 °C)
Density	: 1.266 g/cm <sup>3</sup> (20 °C)
Partition coefficient: n-octanol/water	: log Pow: -1.07 (25 °C)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: 6.149 mm <sup>2</sup> /s (23 °C)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: 76.05 g/mol
Particle size	: No data available

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### 10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions	: Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	: None known.
Incompatible materials	: Oxidizing agents

#### Hazardous decomposition products

Thermal decomposition	: Carbon dioxide
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### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Skin contact Ingestion Eye contact
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### Health hazard information

#### Acute toxicity

|| Harmful if inhaled.

#### Product:

Acute inhalation toxicity : Acute toxicity estimate: 3.61 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

### 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

### Serious eye damage/eye irritation

|| Causes serious eye damage.

#### Components:

##### Glycolic acid:

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

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### Respiratory or skin sensitisation

#### Respiratory sensitisation

|| No data available

#### Skin sensitisation

|| No data available

#### Components:

##### Glycolic acid:

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

#### Carcinogenicity

|| No data available

#### Components:

##### Glycolic acid:

|| No data available

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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#### Germ cell mutagenicity

|| No data available

#### Components:

##### Glycolic acid:

|| No data available

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES)
	Method: OECD Test Guideline 471
	Result: negative
	Test Type: Chromosome aberration test in vitro
	Method: OECD Test Guideline 473
	Result: negative
Genotoxicity in vivo	Test Type: In vitro mammalian cell gene mutation test
	Method: OECD Test Guideline 476

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	Result: negative
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.

### Reproductive toxicity

No data available

#### Components:

#### Glycolic acid:

No data available

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
Effects on foetal development	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative
Reproductive toxicity - Assessment	: Weight of evidence does not support classification for reproductive toxicity

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### 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

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|| Method : OECD Test Guideline 408

### Aspiration toxicity

|| No data available

### Experience with human exposure

#### Product:

Inhalation : Symptoms: At atmospheric temperature, this product has only a minimal risk of inhalation due to its low vapour pressure., Inhalation of dust may cause serious respiratory problems., Corrosive to the respiratory tract.

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

### Further information

No data available

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### 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

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### Persistence and degradability

#### Components:

##### Glycolic acid:

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

#### Components:

##### Glycolic acid:

Partition coefficient: n-octanol/water	:	log Pow: -1.07
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### Mobility in soil

No data available

### Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues	:	Dispose of contents and container according to wastes control act.
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	:	Do not dispose of waste into sewer.
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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.
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### Disposal precautions

Dispose of contents and container according to wastes control act.

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## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number	:	UN 3261
Proper shipping name	:	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Glycolic acid)
Class	:	8
Packing group	:	II
Labels	:	8

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Environmentally hazardous : no

### IATA-DGR

UN/ID No. : UN 3261  
Proper shipping name : Corrosive solid, acidic, organic, n.o.s.  
(Glycolic acid)  
Class : 8  
Packing group : II  
Labels : Corrosive  
Packing instruction (cargo aircraft) : 863  
Packing instruction (passenger aircraft) : 859

### IMDG-Code

UN number : UN 3261  
Proper shipping name : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.  
(Glycolic acid)  
Class : 8  
Packing group : II  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

Refer to section 15 for specific national regulation.

### 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.

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## 15. REGULATORY INFORMATION

### National regulatory information

#### Regulation under the Occupational Safety and Health Act

#### Harmful Substances Prohibited from Manufacturing

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### Harmful Agents to be kept below Occupational Exposure Limits

Not applicable

#### Harmful Agents Required to be kept below Permission Levels

Not applicable

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### **Hazardous substances requiring management**

Not applicable

### **Special Management Materials**

Not applicable

### **Controlled Substances Subject to Environment Monitoring**

Not applicable

### **Controlled Substances Subject to Health Examination**

Not applicable

### **Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation**

Not applicable

### **Regulation under the Chemicals Control Act**

#### **Toxic Chemicals**

Not applicable

#### **Restricted Chemicals**

Not applicable

#### **Prohibited Chemicals**

Not applicable

#### **Toxic Release Inventory**

Not applicable

#### **Accident Precaution Chemicals**

Not applicable

#### **Dangerous Substances Safety Management Act**

Not Applicable to Dangerous Materials

#### **Wastes Control Act**

Industrial general wastes

Follow article 13 of the act to dispose the product waste

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## 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.

### **Further information**

Sources of key data used to compile the Safety Data : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

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### Revision number and date

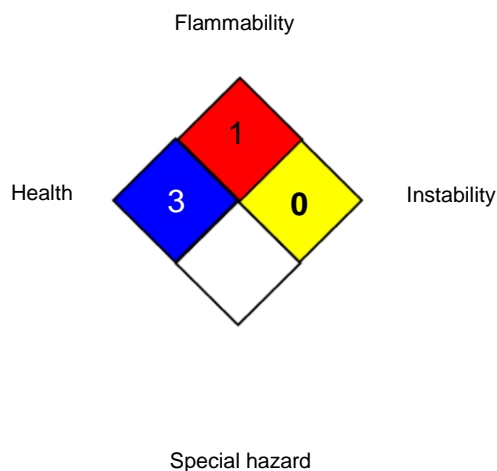
Number of Revision : 4

Revision Date : 2023/10/30

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

Date format : yyyy/mm/dd

### NFPA:



### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
KR OEL : Harmful Agents to be kept below Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
KR OEL / TWA : Time Weighted Average  
KR OEL / STEL : Short Term Exposure Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule;



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ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

KR / EN