

# SAFETY DATA SHEET

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



## LAPONITE-SL 25

Version: 8.0

SDB\_CH

Revision Date: 24.11.2025

Date of last issue: 04.07.2025

Print Date: 25.11.2025

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

#### 1.1 Product identifier

Trade name : LAPONITE-SL 25

Product code : 000000000000110613

This substance/ mixture contains nanoforms (according to REACH Regulation)

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

Use of the : Rheology Additive  
Substance/Mixture

#### 1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH  
Abelstrasse 45  
46483 Wesel

Telephone : +49 281 670-0  
Telefax : +49 281 65735

Information : Regulatory Affairs  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone

+44 1235 239670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

#### 2.2 Label elements

**Labeling (REGULATION (EC) No 1272/2008)**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

#### **Additional Labeling**

EUH210 Safety data sheet available on request.

EUH208 Contains 1,2-Benzisothiazol-3-one, reaction mass of: 5-chloro-2- methyl-4-  
isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC  
no. 220-239-6] (3:1). May produce an allergic reaction.

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### 2.3 Other hazards

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

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

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

Contaminated surfaces will be extremely slippery.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Synthetic (modified) phyllosilicate

#### Components

| Chemical name                                        | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                                                                                                                                                                                                               | Concentration<br>(% w/w) |
|------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| (1-hydroxyethylidene)bisphosphonic acid, sodium salt | 29329-71-3<br>01-2119510382-52                        | Acute Tox. 4; H302                                                                                                                                                                                                                                                                                                                           | >= 1 - < 3               |
| 1,2-Benzisothiazol-3-one                             | 2634-33-5<br>220-120-9<br>01-2120761540-60            | Acute Tox. 4; H302<br>Acute Tox. 2; H330<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 1<br>M-Factor (Chronic<br>aquatic toxicity): 1<br><br>specific concentration<br>limit<br>Skin Sens. 1A; H317<br>>= 0,036 % | >= 0,025 - <<br>0,036    |

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|                                                                                                                                       |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|                                                                                                                                       |                                | Acute toxicity estimate<br><br>Acute oral toxicity:<br>450 mg/kg<br>Acute inhalation toxicity (dust/mist):<br>0,21 mg/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9<br>01-2120764691-48 | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Acute Tox. 2; H310<br>Skin Corr. 1C; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>EUH071<br><br>M-Factor (Acute aquatic toxicity): 100<br>M-Factor (Chronic aquatic toxicity): 100<br><br>specific concentration limit<br>Skin Irrit. 2; H315<br>0,06 - < 0,6 %<br>Eye Irrit. 2; H319<br>0,06 - < 0,6 %<br>Skin Sens. 1A; H317<br>>= 0,0015 %<br>Eye Dam. 1; H318<br>>= 0,6 %<br>Skin Sens. 1A; H317<br>>= 0,0015 %<br>Skin Corr. 1C; H314<br>>= 0,6 %<br><br>Acute toxicity estimate<br><br>Acute inhalation toxicity (dust/mist):<br>0,169 mg/l | >= 0,0002 - < 0,0015 |

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms (according to REACH Regulation)

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### Components:

**Magnesium sodium lithium silicate:**

Particle characteristics

|                             |   |                                                                            |
|-----------------------------|---|----------------------------------------------------------------------------|
| Assessment                  | : | This substance/ mixture contains nanoforms (according to REACH Regulation) |
| Shape                       | : | Shape: plates                                                              |
| Crystallinity               | : | Crystallinity: crystalline                                                 |
| Surface treatment /Coatings | : | Surface treatment /Coatings: no                                            |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

|                         |   |                                                                                                                                                                               |
|-------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : | Do not leave the victim unattended.                                                                                                                                           |
| If inhaled              | : | If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.                                                                 |
| In case of skin contact | : | Wash off with soap and water.<br>Call a physician if irritation develops or persists.                                                                                         |
| In case of eye contact  | : | Rinse immediately with plenty of water for at least 15 minutes.<br><br>Remove contact lenses.<br>Protect unharmed eye.<br>If eye irritation persists, consult a specialist.   |
| If swallowed            | : | Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician. |

### 4.2 Most important symptoms and effects, both acute and delayed

|          |   |                           |
|----------|---|---------------------------|
| Symptoms | : | No information available. |
| Risks    | : | Irritating to eyes.       |

### 4.3 Indication of any immediate medical attention and special treatment needed

|           |   |                        |
|-----------|---|------------------------|
| Treatment | : | Treat symptomatically. |
|-----------|---|------------------------|

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : The product itself does not burn.  
Material can be slippery when wet.
- Hazardous combustion products : No hazardous combustion products are known

#### 5.3 Advice for firefighters

- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

---

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.

#### 6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

#### 6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid spillage on floor as the product can become very slippery when wet.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : General industrial hygiene practice.

#### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No materials to be especially mentioned.
- Further information on storage stability : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

- Specific use(s) : No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components                                                                                                                                                           | CAS-No.                                                                                                                                                                                   | Value type (Form of exposure) | Control parameters | Basis   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------|---------|
| reaction mass of:<br>5-chloro-2- methyl-<br>4-isothiazolin-3-<br>one [EC no. 247-<br>500-7]and 2-<br>methyl-2H -<br>isothiazol-3- one<br>[EC no. 220-239-6]<br>(3:1) | 55965-84-9                                                                                                                                                                                | TWA (inhalable<br>dust)       | 0,2 mg/m3          | CH SUVA |
|                                                                                                                                                                      | Further information: Sensitizers; Substances marked with an S can lead to very strong allergic reactions., Harm to the unborn child is not to be expected when the OEL-value is respected |                               |                    |         |
|                                                                                                                                                                      |                                                                                                                                                                                           | STEL (inhalable<br>dust)      | 0,4 mg/m3          | CH SUVA |
|                                                                                                                                                                      | Further information: Sensitizers; Substances marked with an S can lead to very strong allergic reactions., Harm to the unborn child is not to be expected when the OEL-value is respected |                               |                    |         |

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

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| Substance name                                        | End Use             | Routes of exposure | Potential health effects   | Value     |
|-------------------------------------------------------|---------------------|--------------------|----------------------------|-----------|
| Magnesium sodium lithium silicate                     | Workers             | Dermal             | Acute systemic effects     | 40 mg/kg  |
|                                                       | Exposure time: 24 h |                    |                            |           |
|                                                       | Workers             | Inhalation         | Acute systemic effects     | 10 mg/m3  |
| (1-hydroxyethylidene)bis phosphonic acid, sodium salt | Consumers           | Oral               | Long-term systemic effects | 6,5 mg/kg |

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

| Substance name                                       | Environmental Compartment | Value       |
|------------------------------------------------------|---------------------------|-------------|
| Magnesium sodium lithium silicate                    | Water                     | 0,1 mg/l    |
| (1-hydroxyethylidene)bisphosphonic acid, sodium salt | Fresh water               | 0,136 mg/l  |
|                                                      | Sea water                 | 0,0136 mg/l |
|                                                      | Sewage treatment plant    | 20 mg/l     |

## 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation.

Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Eye/face protection : If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.  
Safety glasses

Hand protection  
Material : Protective gloves

Remarks : Use protective skin cream before handling the product.  
Skin and body protection : Protective suit  
Respiratory protection : No personal respiratory protective equipment normally required.

### Environmental exposure controls

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : dispersion  
Color : translucent  
Odor : odorless

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|                                                  |   |                                                                            |
|--------------------------------------------------|---|----------------------------------------------------------------------------|
| Odor Threshold                                   | : | Not applicable                                                             |
| Melting point/freezing point                     | : | < 0 °C<br>Method: estimated                                                |
| Boiling point/boiling range                      | : | 100 °C<br>Method: estimated                                                |
| Flammability                                     | : | Will not burn                                                              |
| Upper explosion limit / Upper flammability limit | : | Not applicable                                                             |
| Lower explosion limit / Lower flammability limit | : | Not applicable                                                             |
| Flash point                                      | : | Not applicable                                                             |
| Autoignition temperature                         | : | No data available                                                          |
| Decomposition temperature                        | : | No data available                                                          |
| pH                                               | : | 9,2 (20 °C)<br>Concentration: 100 %                                        |
| Viscosity                                        |   |                                                                            |
| Viscosity, dynamic                               | : | No data available                                                          |
| Solubility(ies)                                  |   |                                                                            |
| Water solubility                                 | : | dispersible                                                                |
| Solubility in other solvents                     | : | No data available                                                          |
| Partition coefficient: n-octanol/water           | : | No data available                                                          |
| Vapor pressure                                   | : | No data available                                                          |
| Relative density                                 | : | No data available                                                          |
| Density                                          | : | 1,3 g/cm <sup>3</sup> (20 °C)<br>Method: estimated                         |
| Relative vapor density                           | : | No data available                                                          |
| Particle characteristics                         |   |                                                                            |
| Assessment                                       | : | This substance/ mixture contains nanoforms (according to REACH Regulation) |
| Particle size                                    | : | Further particle properties for nanomaterials see section 3                |

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### 9.2 Other information

Self-ignition : Not applicable

Evaporation rate : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

### 10.6 Hazardous decomposition products

Stable under normal conditions.

---

## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### Components:

#### (1-hydroxyethylidene)bisphosphonic acid, sodium salt:

Acute oral toxicity : LD50: > 300 - 2.000 mg/kg  
Method: OECD Test Guideline 401

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### **1,2-Benzisothiazol-3-one:**

Acute oral toxicity : Acute toxicity estimate: 450 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 0,21 mg/l  
Test atmosphere: dust/mist  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

### **reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1):**

Acute inhalation toxicity : LC50: 0,169 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

### **Skin corrosion/irritation**

Not classified due to lack of data.

#### **Product:**

Remarks : No data available

### **Serious eye damage/eye irritation**

Not classified due to lack of data.

#### **Product:**

Remarks : No data available

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### **Product:**

Remarks : No data available

### **Germ cell mutagenicity**

Not classified due to lack of data.

### **Carcinogenicity**

Not classified due to lack of data.

### **Reproductive toxicity**

Not classified due to lack of data.

### **STOT-single exposure**

Not classified due to lack of data.

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### STOT-repeated exposure

Not classified due to lack of data.

### Repeated dose toxicity

#### Product:

Remarks : No data available

### Aspiration toxicity

Not classified due to lack of data.

## 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.

### Further information

#### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

#### Components:

##### **(1-hydroxyethylidene)bisphosphonic acid, sodium salt:**

Toxicity to fish : LC50 : > 250 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

##### **1,2-Benzisothiazol-3-one:**

M-Factor (Acute aquatic) : 1

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toxicity)

M-Factor (Chronic aquatic toxicity) : 1

**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1):**

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 0,018 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 100

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Remarks: No data available

### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : Remarks: No data available

### 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

#### **Product:**

Additional ecological information : No data available

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.4 Packing group

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA (Cargo) : Not regulated as a dangerous good  
IATA (Passenger) : Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

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### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

|                                                                                                                                                         |                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)              | : Conditions of restriction for the following entries should be considered:<br>Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor. |
| REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).                                                               | : This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57).                                                           |
| 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. | Not applicable                                                                                                                                                                 |
| Volatile organic compounds                                                                                                                              | : Law on the incentive tax for volatile organic compounds (VOCV)<br>no VOC duties                                                                                              |

### 15.2 Chemical Safety Assessment

Not applicable

## SECTION 16: Other information

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

### Full text of H-Statements

|      |                                            |
|------|--------------------------------------------|
| H301 | : Toxic if swallowed.                      |
| H302 | : Harmful if swallowed.                    |
| H310 | : Fatal in contact with skin.              |
| H314 | : Causes severe skin burns and eye damage. |

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|        |                                                         |
|--------|---------------------------------------------------------|
| H315   | : Causes skin irritation.                               |
| H317   | : May cause an allergic skin reaction.                  |
| H318   | : Causes serious eye damage.                            |
| H330   | : Fatal if inhaled.                                     |
| H400   | : Very toxic to aquatic life.                           |
| H410   | : Very toxic to aquatic life with long lasting effects. |
| EUH071 | : Corrosive to the respiratory tract.                   |

### Full text of other abbreviations

|                 |                                               |
|-----------------|-----------------------------------------------|
| Acute Tox.      | : Acute toxicity                              |
| Aquatic Acute   | : Short-term (acute) aquatic hazard           |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard          |
| Eye Dam.        | : Serious eye damage                          |
| Skin Corr.      | : Skin corrosion                              |
| Skin Irrit.     | : Skin irritation                             |
| Skin Sens.      | : Skin sensitization                          |
| CH SUVA         | : Switzerland. Limit values at the work place |
| CH SUVA / TWA   | : Time Weighted Average                       |
| CH SUVA / STEL  | : Short Term Exposure Limit                   |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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 Standardization; 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 Organization 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, Authorization 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

# SAFETY DATA SHEET

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



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### Further information

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