

## SAFETY DATA SHEET

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

## 1.1. Product identifier

Code: 218  
Product name: Pineline Comp-clean 35

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

Intended use: Industrial cleaner

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

Name: TEKNO-FOREST OY  
Full address: Kynttilätie 3  
District and Country: 11710 Riihimäki Finland  
Tel.: (+358)-19-774860  
Fax: -

e-mail address of the competent person responsible for the Safety Data Sheet: info@pineline.com

Supplier: -

## 1.4. Emergency telephone number

For urgent inquiries refer to: -

Emergency number in Finland: 112.  
Poison information centre, PL 790, 00029 HUS: tel. 09-471977 or 09-4711.

## SECTION 2. Hazards identification

## 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

|                                                      |      |                                          |
|------------------------------------------------------|------|------------------------------------------|
| Substance or mixture corrosive to metals, category 1 | H290 | May be corrosive to metals.              |
| Skin corrosion, category 1B                          | H314 | Causes severe skin burns and eye damage. |
| Serious eye damage, category 1                       | H318 | Causes serious eye damage.               |

## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:  
H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

Precautionary statements:

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### SECTION 2. Hazards identification ... / >>

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>P280</b>           | Wear protective gloves / protective clothing / eye protection / face protection.                                                 |
| <b>P301+P330+P331</b> | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| <b>P303+P361+P353</b> | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| <b>P305+P351+P338</b> | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>P310</b>           | Immediately call a POISON CENTER / doctor / . . .                                                                                |

|                  |                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------|
| <b>Contains:</b> | SODIUM HYDROXIDE<br>SODIUM METASILICATE<br>ETHANOLAMINE<br>ALKYLGLUCOSIDE<br>ALCOHOL ALCOXYLATE |
|------------------|-------------------------------------------------------------------------------------------------|

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

### SECTION 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

| Identification             | x = Conc. %     | Classification (EC) 1272/2008 (CLP)                                                                                               |
|----------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>ALKYLGLUCOSIDE</b>      |                 |                                                                                                                                   |
| INDEX                      | $5 \leq x < 10$ | Eye Dam. 1 H318                                                                                                                   |
| EC                         |                 |                                                                                                                                   |
| CAS 125590-73-0            |                 |                                                                                                                                   |
| <b>SODIUM HYDROXIDE</b>    |                 |                                                                                                                                   |
| INDEX 011-002-00-6         | $5 \leq x < 10$ | Met. Corr. 1 H290, Skin Corr. 1A H314, Eye Dam. 1 H318                                                                            |
| EC 215-185-5               |                 | Skin Corr. 1B H314: $\geq 2\%$ , Skin Irrit. 2 H315: $\geq 0,5\%$ , Eye Dam. 1 H318: $\geq 2\%$ , Eye Irrit. 2 H319: $\geq 0,5\%$ |
| CAS 1310-73-2              |                 |                                                                                                                                   |
| <b>ALCOHOL ALCOXYLATE</b>  |                 |                                                                                                                                   |
| INDEX                      | $2 \leq x < 5$  | Eye Dam. 1 H318                                                                                                                   |
| EC                         |                 |                                                                                                                                   |
| CAS 26468-86-0             |                 |                                                                                                                                   |
| <b>ETHANOLAMINE</b>        |                 |                                                                                                                                   |
| INDEX 603-030-00-8         | $1 \leq x < 3$  | Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335                      |
| EC 205-483-3               |                 | STOT SE 3 H335: $\geq 5\%$                                                                                                        |
| CAS 141-43-5               |                 | STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l              |
| <b>SODIUM METASILICATE</b> |                 |                                                                                                                                   |
| INDEX                      | $1 \leq x < 3$  | Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335                                                                               |
| EC 229-912-9               |                 |                                                                                                                                   |
| CAS 10213-79-3             |                 |                                                                                                                                   |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### SECTION 4. First aid measures

#### 4.1. Description of first aid measures

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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Specific information on symptoms and effects caused by the product are unknown.

**4.3. Indication of any immediate medical attention and special treatment needed**

Information not available

**SECTION 5. Firefighting measures****5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

Choose the most appropriate extinguishing equipment for the specific case.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

**5.2. Special hazards arising from the substance or mixture**

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

The product is neither flammable nor combustible.

**5.3. Advice for firefighters**

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

Spills of the product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Storage temperature: +5...+30 °C. Self life: 12 months from date of production if stored properly in original sealed containers.

**7.3. Specific end use(s)**

Information not available

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## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

|     |                |                                                                                                                                                                                                                                                                                            |
|-----|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EST | Eesti          | Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]                                                                                            |
| FIN | Suomi          | HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25                                                                                                                                                                         |
| ITA | Italia         | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                                                                                                                                                    |
| NOR | Norge          | Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255                                                  |
| SWE | Sverige        | Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                            |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                                                                                                  |
| EU  | OEL EU         | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |
|     | TLV-ACGIH      | ACGIH 2021                                                                                                                                                                                                                                                                                 |

### SODIUM HYDROXIDE

| Threshold Limit Value |         |        |     |            |     |                        |
|-----------------------|---------|--------|-----|------------|-----|------------------------|
| Type                  | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|                       |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV                   | EST     | 1      |     | 2 (C)      |     |                        |
| HTP                   | FIN     |        |     | 2 (C)      |     |                        |
| TLV                   | NOR     | 2      |     |            |     |                        |
| NGV/KGV               | SWE     | 1      |     | 2          |     | INHAL                  |
| WEL                   | GBR     |        |     | 2          |     |                        |
| TLV-ACGIH             |         |        |     | 2 (C)      |     |                        |

### ETHANOLAMINE

| Threshold Limit Value |         |        |     |            |     |                        |
|-----------------------|---------|--------|-----|------------|-----|------------------------|
| Type                  | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|                       |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV                   | EST     | 2,5    | 1   | 7,6        | 3   | SKIN                   |
| HTP                   | FIN     | 2,5    | 1   | 7,6        | 3   | SKIN                   |
| VLEP                  | ITA     | 2,5    | 1   | 7,6        | 3   | SKIN                   |
| TLV                   | NOR     | 2,5    | 1   |            |     | SKIN                   |
| NGV/KGV               | SWE     | 2,5    | 1   | 7,5        | 3   | SKIN                   |
| WEL                   | GBR     | 2,5    | 1   | 7,6        | 3   | SKIN                   |
| OEL                   | EU      | 2,5    | 1   | 7,6        | 3   | SKIN                   |
| TLV-ACGIH             |         | 7,5    | 3   | 15         | 6   |                        |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

#### SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

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### SECTION 8. Exposure controls/personal protection ... / >>

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type A filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### SECTION 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

| Properties                             | Value            | Information |
|----------------------------------------|------------------|-------------|
| Appearance                             | liquid           |             |
| Colour                                 | dark brown       |             |
| Odour                                  | strong           |             |
| Melting point / freezing point         | not available    |             |
| Initial boiling point                  | > 100 °C         |             |
| Flammability                           | incombustible    |             |
| Lower explosive limit                  | not available    |             |
| Upper explosive limit                  | not available    |             |
| Flash point                            | > 100 °C         |             |
| Auto-ignition temperature              | not available    |             |
| Decomposition temperature              | not available    |             |
| pH                                     | 13,1             |             |
| Kinematic viscosity                    | not available    |             |
| Solubility                             | soluble in water |             |
| Partition coefficient: n-octanol/water | not available    |             |
| Vapour pressure                        | not available    |             |
| Density and/or relative density        | 1,15             |             |
| Relative vapour density                | not available    |             |
| Particle characteristics               | not applicable   |             |

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### SODIUM METASILICATE

The aqueous solutions act as: strong bases. Corrodes: aluminium, zinc, tin, aluminium alloys, zinc alloys, tin alloys.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### ETHANOLAMINE

May react dangerously with: acrylonitrile, chloroepoxypropane, chlorosulphuric acid, hydrogen chloride, iron-sulphur compounds, acetic acid, acetic anhydride, mesityl oxide, nitric acid, sulphuric acid, strong acids, vinyl acetate, cellulose nitrate.

#### SODIUM METASILICATE

**SAFETY DATA SHEET** According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

### SECTION 10. Stability and reactivity ... / >>

Reacts violently with: acids.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### SODIUM HYDROXIDE

Avoid exposure to: air,moisture,sources of heat.

#### ETHANOLAMINE

Avoid exposure to: air,sources of heat.

#### 10.5. Incompatible materials

#### SODIUM HYDROXIDE

Incompatible with: strong acids,ammonia,zinc,lead,aluminium,water,flammable liquids.

#### ETHANOLAMINE

Incompatible with: iron,strong acids,strong oxidants.

#### 10.6. Hazardous decomposition products

#### ETHANOLAMINE

May develop: nitric oxide,carbon oxides.

### SECTION 11. Toxicological information

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

##### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

##### Information on likely routes of exposure

Information not available

##### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

##### Interactive effects

Information not available

##### ACUTE TOXICITY

|                                                    |             |
|----------------------------------------------------|-------------|
| ATE (Inhalation - mists / powders) of the mixture: | > 5 mg/l    |
| ATE (Inhalation - vapours) of the mixture:         | > 20 mg/l   |
| ATE (Oral) of the mixture:                         | >2000 mg/kg |
| ATE (Dermal) of the mixture:                       | >2000 mg/kg |

#### ALKYLGLUCOSIDE

|              |              |
|--------------|--------------|
| LD50 (Oral): | > 2000 mg/kg |
|--------------|--------------|

#### SODIUM HYDROXIDE

|                |                |
|----------------|----------------|
| LD50 (Dermal): | 1350 mg/kg Rat |
| LD50 (Oral):   | 1350 mg/kg Rat |

#### ALCOHOL ALCOXYLATE

|              |              |
|--------------|--------------|
| LD50 (Oral): | > 2000 mg/kg |
|--------------|--------------|

#### ETHANOLAMINE

|                                 |                                                                                                                                           |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| STA (Oral):                     | 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture)  |
| STA (Dermal):                   | 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture) |
| STA (Inhalation mists/powders): | 1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture)   |
| STA (Inhalation vapours):       | 11 mg/l estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture)    |

##### SKIN CORROSION / IRRITATION

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**SECTION 11. Toxicological information** ... / >>

Corrosive for the skin  
Classification according to the experimental Ph value

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage

**RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

**ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

ALKYLGLUCOSIDE  
LC50 - for Fish > 310 mg/l/96h

ALCOHOL ALCOXYLATE  
LC50 - for Fish 13 mg/l/96h

**12.2. Persistence and degradability**

ALKYLGLUCOSIDE  
Rapidly degradable

ALCOHOL ALCOXYLATE  
Rapidly degradable

SODIUM HYDROXIDE  
Solubility in water > 10000 mg/l  
Degradability: information not available

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**SECTION 12. Ecological information** ... / >>

ETHANOLAMINE  
 Solubility in water 1000 - 10000 mg/l  
 Rapidly degradable

**12.3. Bioaccumulative potential**

ETHANOLAMINE  
 Partition coefficient: n-octanol/water -2,3

**12.4. Mobility in soil**

ETHANOLAMINE  
 Partition coefficient: soil/water -0,5646

**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information**

**14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 3266

**14.2. UN proper shipping name**

ADR / RID: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

**14.3. Transport hazard class(es)**

ADR / RID: Class: 8 Label: 8



IMDG: Class: 8 Label: 8



IATA: Class: 8 Label: 8



**14.4. Packing group**

ADR / RID, IMDG, IATA: II

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### SECTION 14. Transport information ... / >>

#### 14.5. Environmental hazards

 ADR / RID: NO  
 IMDG: NO  
 IATA: NO

#### 14.6. Special precautions for user

|            |                      |                         |                              |
|------------|----------------------|-------------------------|------------------------------|
| ADR / RID: | HIN - Kemler: 80     | Limited Quantities: 1 L | Tunnel restriction code: (E) |
|            | Special provision: - |                         |                              |
| IMDG:      | EMS: F-A, S-B        | Limited Quantities: 1 L |                              |
| IATA:      | Cargo:               | Maximum quantity: 30 L  | Packaging instructions: 855  |
|            | Pass.:               | Maximum quantity: 1 L   | Packaging instructions: 851  |
|            | Special provision:   | A3, A803                |                              |

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

Information not relevant

### SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product  
 Point 3

Contained substance  
 Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
 not applicable

Substances in Candidate List (Art. 59 REACH)

 On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| <b>Met. Corr. 1</b>  | Substance or mixture corrosive to metals, category 1         |
| <b>Acute Tox. 4</b>  | Acute toxicity, category 4                                   |
| <b>Skin Corr. 1A</b> | Skin corrosion, category 1A                                  |
| <b>Skin Corr. 1B</b> | Skin corrosion, category 1B                                  |
| <b>Eye Dam. 1</b>    | Serious eye damage, category 1                               |
| <b>STOT SE 3</b>     | Specific target organ toxicity - single exposure, category 3 |
| <b>H290</b>          | May be corrosive to metals.                                  |

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**SECTION 16. Other information** ... / >>

|             |                                          |
|-------------|------------------------------------------|
| <b>H302</b> | Harmful if swallowed.                    |
| <b>H312</b> | Harmful in contact with skin.            |
| <b>H332</b> | Harmful if inhaled.                      |
| <b>H314</b> | Causes severe skin burns and eye damage. |
| <b>H318</b> | Causes serious eye damage.               |
| <b>H335</b> | May cause respiratory irritation.        |

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website

**SAFETY DATA SHEET** According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH**SECTION 16. Other information** ... / >>

- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.