

according to Regulation (EC) No 1907/2006 (REACH) as amended

## **H2Foam Lite LDC50 v6**

Creation date 27. July 2018

Revision date 1.0 Version

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

H2Foam Lite LDC50 v6 **Product identifier** 

Substance / mixture mixture

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

A component for the production of insulation foam. For professional mixture's intended use

The use descriptors

SU<sub>3</sub> Industrial uses: Uses of substances as such or in preparations\* at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen) SU 22

Disapproved uses of mixture The product should not be used in ways other then those referred in

Section 1.

1.3. Details of the supplier of the safety data sheet

**Supplier** 

Name or trade name Icynene Europe Sprl

Address 30 Clos Chapelle aux Champs, Brussels, B-1200

Belgium

Phone +32 2 880 62 33

Competent person responsible for the safety data sheet

Name GRACILIS s.r.o. E-mail info@gracilis.cz

1.4. Emergency telephone number

National Health Service (NHS) 111

National poisoning information centre Scotland, NHS 24: 111

#### **SECTION 2: Hazards identification**

#### 2.1. Substance or mixture classification

#### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of all classifications and hazard statements is given in the section 16.

## Most serious adverse effects on human health and the environment

Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

#### 2.2. Label elements

#### Hazard pictogram





Signal word

Danger

## Hazardous substances

N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine

N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine

2-[2-(Dimethylamino)ethoxy]ethanol

## Hazard statements

H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage.





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#### Precautionary statements

P280 Wear protective gloves/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents/container to according to applicable regulations.

#### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers                                    | Substance name   | Content in % weight | 8 8  | Note. |
|---|--|---------------------|--|-------|
| EC: 911-815-4<br>Registration number:<br>01-2119486772-26 | ТСРР   | 35-45               | Acute Tox. 4, H302   | 1     |
| CAS: 6711-48-4<br>EC: 229-761-9                           | N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane<br>-1,3-diamine     | 5-8                 | Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Skin Corr. 1B, H314                            |       |
| CAS: 3855-32-1<br>EC: 223-362-3                           | N-[3-(dimethylamino)propyl]-N,N',N'-<br>trimethylpropane-1,3-diamine | 0,5-1,5             | Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Skin Corr. 1C, H314<br>Aquatic Chronic 3, H412 |       |
| CAS: 1704-62-7<br>EC: 216-940-1                           | 2-[2-(Dimethylamino)ethoxy]ethanol                                   | 0,5-1,5             | Acute Tox. 4, H312<br>Skin Corr. 1C, H314  |       |

#### Notes

Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

Full text of all classifications and hazard statements is given in the section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

#### Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

#### Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### Ingestion

Rinse out the mouth with clean water. Do not provide anything by mouth if the person is unconscious or if having cramps. Provide medical treatment.





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

#### Inhalation

Possible irritation of airways, cough, headache. Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

#### Skin contact

Causes skin irritation. Contact may cause redness, swelling and a painful sensation.

#### Eye contact

Causes serious eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision.

#### Ingestion

Disorder of digestive system, stomach pain, vomiting, diarrhoea.

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

Symptomatic treatment.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

#### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases (NOx, ammonia, aldehydes, ketones, phosphorous oxides, hydrogen chloride, silicon oxides and other unidentified organic compounds) may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Do not allow run -off of contaminated fire extinguishing material to enter drains or surface and ground water. Closed containers with the product near the fire should be cooled with water.

### **SECTION 6: Accidental release measures**

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

## 6.4. Reference to other sections

See the Section 7, 8 and 13.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothings. Do not inhale gases and vapours. Wash hands and exposed parts of the body thoroughly after handling. Do no eat, drink or smoke when using this product. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from heating / ignition sources.

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

A component for the production of insulation foam.

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

none





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#### **Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

## Skin protection

Hand protection: Protective gloves resistant to the product according to EN 374. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Mask with a filter in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

#### **SECTION 9: Physical and chemical properties**

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

Appearance

liquid at 20°C Physical state color white Odour amine-like Odour threshold data not available pН 11.36 (undiluted) Melting point/freezing point data not available Initial boiling point and boiling range data not available Flash point data not available Evaporation rate data not available Flammability (solid, gas) data not available

Upper/lower flammability or explosive limits

flammability limits data not available explosive limits data not available Vapour pressure data not available Vapour density data not available

Relative density 1.11

Solubility(ies)

solubility in water soluble

solubility in fats data not available Partition coefficient: n-octanol/water data not available Auto-ignition temperature data not available Decomposition temperature data not available data not available Viscosity data not available Explosive properties data not available Oxidising properties

9.2. Other information

> data not available Density ignition temperature data not available

Dynamic viscosity 1000 mPa.s (at 23 °C).

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

May slowly corrode copper, aluminium, zinc and galvanized surfaces.

#### 10.2. Chemical stability

The product is stable under normal conditions.



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## 10.3. Possibility of hazardous reactions

Unknown.

#### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents, nitrites, metals and isocyanates.

#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide, NOx, ammonia, aldehydes, ketones, phosphorous oxides, hydrogen chloride, silicon oxides and other unidentified organic compounds are formed at high temperature and in fire.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

#### Acute toxicity

Harmful if swallowed.

#### 2-[2-(Dimethylamino)ethoxy]ethanol

| Route of exposure | Parameter | Value      | Time of exposure | Species                    | Sex | Determining method |
|-------------------|-----------|------------|------------------|----------------------------|-----|--------------------|
| Oral              | LD50      | 2337 mg/kg |                  | Rat (Rattus<br>norvegicus) |     |                    |
| Dermal            | LD50      | 1340 mg/kg |                  | Rabbit                     |     |                    |

## N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine

| Route of exposure | Parameter        | Value        | Time of exposure | Species | Sex | Determining method |
|-------------------|------------------|--------------|------------------|---------|-----|--------------------|
| Oral              | LD <sub>50</sub> | 1389.4 mg/kg |                  | Rat     |     |                    |
| Dermal            | LD50             | 992.4 mg/kg  |                  | Rabbit  |     |                    |

#### N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine

| Route of exposure | Parameter | Value           | Time of exposure | Species                    | Sex | Determining method |
|-------------------|-----------|-----------------|------------------|----------------------------|-----|--------------------|
| Oral              | LD50      | 1200-1650 mg/kg |                  | Rat (Rattus<br>norvegicus) |     |                    |
| Dermal            | LD50      | 370 mg/kg       |                  | Rabbit                     |     |                    |

#### TCPP

| Route of exposure     | Parameter        | Value          | Time of exposure | Species                    | Sex | Determining method |
|-----------------------|------------------|----------------|------------------|----------------------------|-----|--------------------|
| Dermal                | LD <sub>50</sub> | >2000 mg/kg    |                  | Rabbit                     |     | Read-across        |
| Inhalation (aerosols) | LC50             | >4.6 mg/l      | 4 hour           | Rat (Rattus<br>norvegicus) |     | Read-across        |
| Oral                  | LD50             | 632-2000 mg/kg |                  | Rat (Rattus<br>norvegicus) |     | Read-across        |

## Skin corrosion/irritation

Causes skin irritation.

## Serious eye damage/irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.





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#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### Reproductive toxicity

Based on available data the classification criteria are not met.

## Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### **Aspiration hazard**

Based on available data the classification criteria are not met.

#### **SECTION 12: Ecological information**

## 12.1. Toxicity

#### Acute toxicity

Data for the mixture are not available.

## 2-[2-(Dimethylamino)ethoxy]ethanol

| Parameter        | Value     | Time of exposure | Species                 | Environment | Determining method |
|------------------|-----------|------------------|-------------------------|-------------|--------------------|
| LC50             | 320 mg/l  | 96 hour          | Fishes (Leuciscus idus) |             |                    |
| EC <sub>50</sub> | >100 mg/l | 48 hour          | Daphnia (Daphnia magna) |             |                    |
| NOEC             | 40 mg/l   | 72 hour          | Algae                   |             |                    |
| EC50             | 160 mg/l  | 72 hour          | Algae                   |             |                    |

## N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine

| Parameter        | Value     | Time of exposure | Species                     | Environment | Determining method |
|------------------|-----------|------------------|-----------------------------|-------------|--------------------|
| LC50             | 92.5 mg/l | 96 hour          | Fishes (Branchydanio rerio) |             |                    |
| EC50             | 50.3 mg/l | 48 hour          | Daphnia (Daphnia magna)     |             |                    |
| EC <sub>50</sub> | 74.9 mg/l | 72 hour          | Algae                       |             |                    |

# N'-[3-(dimethylamino)propyl]-N, N-dimethylpropane-1, 3-diamine

| Parameter        | Value        | Time of exposure | Species                     | Environment | Determining method |
|------------------|--------------|------------------|-----------------------------|-------------|--------------------|
| LC50             | 21.4-47 mg/l | 96 hour          | Fishes (Branchydanio rerio) |             |                    |
| EC50             | 50.3 mg/l    | 48 hour          | Daphnia (Daphnia magna)     |             |                    |
| EC <sub>50</sub> | 7.9 mg/l     | 72 hour          | Algae                       |             |                    |
| NOEC             | 1.2 mg/l     | 72 hour          | Algae                       |             |                    |

### TCPP

| Parameter | Value   | Time of exposure | Species                      | Environment | Determining method |
|-----------|---------|------------------|------------------------------|-------------|--------------------|
| LC50      | 51 mg/l | 96 hour          | Fishes (Pimephales promelas) |             | Read-across        |





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## TCPP

| Parameter        | Value    | Time of exposure | Species                 | Environment | Determining method |
|------------------|----------|------------------|-------------------------|-------------|--------------------|
| EC <sub>50</sub> | 131 mg/l | 48 hour          | Daphnia (Daphnia magna) |             | Read-across        |
| EC <sub>50</sub> | 82 mg/l  | 72 hour          | Algae                   |             | Read-across        |
| NOEC             | 13 mg/l  | 72 day           | Algae                   |             | Read-across        |

## Chronic toxicity

N'-[3-(dimethylamino)propyl]-N, N-dimethylpropane-1, 3-diamine

| Parameter | Value    | Time of exposure | Species                 | Environment | Determining method |
|-----------|----------|------------------|-------------------------|-------------|--------------------|
| NOEC      | 3.5 mg/l | 48 hour          | Daphnia (Daphnia magna) |             | QSAR               |

#### TCPP

| Parameter | Value    | Time of exposure | Species                 | Environment | Determining method |
|-----------|----------|------------------|-------------------------|-------------|--------------------|
| NOEC      | 5.2 mg/l | 21 day           | Fishes                  |             | QSAR, Read-across  |
| NOEC      | 32 mg/l  | 21 day           | Daphnia (Daphnia magna) |             | Read-across        |

#### 12.2. Persistence and degradability

Data not available.

## 12.3. Bioaccumulative potential

## 2-[2-(Dimethylamino)ethoxy]ethanol

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] | Determining method |
|-----------|-------|------------------|---------|-------------|------------------------------|--------------------|
| Log Kow   | 0.778 |                  |         |             |                              |                    |
| BCF       | 3.16  |                  |         |             |                              |                    |

## N-[3-(dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine

| Parameter | Value | Time of exposure | Species                  | Environment | Surrounding temperature [°C] | Determining method |
|-----------|-------|------------------|--------------------------|-------------|------------------------------|--------------------|
| Log Kow   | 0     |                  |                          |             |                              |                    |
| BCF       | 2     |                  | Fishes (Cyprinus carpio) |             |                              | Read-across        |

## N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] | Determining method |
|-----------|-------|------------------|---------|-------------|------------------------------|--------------------|
| Log Kow   | 0.214 |                  |         |             |                              |                    |

## TCPP

| Parameter | Value   | Time of exposure | Species                  | Environment | Surrounding temperature [°C] | Determining method |
|-----------|---------|------------------|--------------------------|-------------|------------------------------|--------------------|
| Log Kow   | 2.59    |                  |                          |             |                              |                    |
| BCF       | 0.8-4.6 |                  | Fishes (Cyprinus carpio) |             |                              |                    |

Not available.

#### 12.4. Mobility in soil

Not available.





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

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Other adverse effects

Water Hazard Class: 1 (Self-assessment).

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### **SECTION 14: Transport information**

#### 14.1. UN number

Not subject to ADR.

#### 14.2. UN proper shipping name

not available

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

not available

#### 14.4. Packing group

not available

## 14.5. Environmental hazards

not available

## 14.6. Special precautions for user

Reference in the Sections 4 to 8.

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

#### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

### 15.2. Chemical safety assessment

not available

#### **SECTION 16: Other information**

### A list of standard risk phrases used in the safety data sheet

| H302 | Harmful if swallowed.         |
|------|-------------------------------|
| H311 | Toxic in contact with skin.   |
| H312 | Harmful in contact with skin. |

| H314  | Causes severe skin burns and eve damage.      |
|-------|---|
| 11314 | Causes severe skill bullis allu eye dalliage. |

H315 Causes skin irritation.
H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.





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Guidelines for safe handling used in the safety data sheet

P280 Wear protective gloves/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P310 Immediately call a doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents/container to according to applicable regulations.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

DNEL Derived no-effect level

EC Identification code for each substance listed in EINECS

EC<sub>50</sub> Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

ICso Concentration causing 50% blockade
 ICAO International Civil Aviation Organization
 IMDG International Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

LC<sub>50</sub> Lethal concentration of a substance in which it can be expected death of 50% of the population

 $LD_{50}$  Lethal dose of a substance in which it can be expected death of 50% of the population

LOAEC Lowest observed adverse effect concentration
LOAEL Lowest observed adverse effect level
log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEC No observed adverse effect concentration
NOAEL No observed adverse effect level
NOEC No observed effect concentration
NOEL No observed effect level

NOEC No observed effect concentration

NOEL No observed effect level

OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic

PNEC Predicted no-effect concentration

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN Model Regulations UVCB Substances of unknown or variable composition, complex reaction products or biological materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity

Aquatic Chronic Hazardous to the aquatic environment

Eye Dam. Serious eye damage Skin Corr. Skin corrosion Skin Irrit. Skin irritation





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#### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

#### Recommended restrictions of use

not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### More information

Skin corrosion classification was excluded by the Corrositex Test (49 CFR 173.136).

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

