

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **EK-CRYOFUEL PREMIX CLEAR / SOLID**  
Creation date: **19.10.2016** · Revision: **4.2.2022** · Version: **2**

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

#### Product name

**EK-CRYOFUEL PREMIX CLEAR / SOLID**

#### Synonyms

EK-CryoFuel Clear Premix 1000mL (EAN 3831109813256), EK-CryoFuel Blood Red Premix 1000mL (EAN 3831109813263), EK-CryoFuel Navy Blue Premix 1000mL (EAN 3831109813270), EK-CryoFuel Lime Yellow Premix 1000mL (EAN 3831109813287), EK-CryoFuel Acid Green Premix 1000mL (EAN 3831109813294), EK-CryoFuel Amber Orange Premix 1000mL (EAN 3831109810408), EK-CryoFuel Indigo Violet Premix 1000mL (EAN 3831109810415), EK-CryoFuel Solid Electric Purple Premix 1000mL (EAN 3831109880340), EK-CryoFuel Solid Azure Blue Premix 1000mL (EAN 3831109880357), EK-CryoFuel Solid Neon Green Premix 1000mL (EAN 3831109880364), EK-CryoFuel Solid Cloud White Premix 1000mL (EAN 3831109880302), EK-CryoFuel Solid Laguna Yellow Premix 1000mL (EAN 3831109880319), EK-CryoFuel Solid Fire Orange Premix 1000mL (EAN 3831109880326), EK-CryoFuel Solid Scarlet Red Premix 1000mL (EAN 3831109880333), EK-CryoFuel Power Pink Premix 1000 mL (EAN 3831109816134), EK-CryoFuel Clear Premix 200 mL (NVIDIA) (EAN 3830046996817), EK-CryoFuel Mystic Fog Premix 1000 mL (EAN 3831109829912)

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

#### Relevant identified uses

Coolant for water cooling of computer systems.

#### Uses advised against

Not for consumption.

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

#### Manufacturer

KIMI d.o.o.  
Planjava 1, 1236 Trzin,  
Slovenia  
Tel: 00386 (0)1 5300 550  
Fax: 00386 (0)1 5300 580  
E-mail: info@kimi.si

#### Supplier

EKWB d.o.o.  
Address: Poslovna Cona Pod Lipami 18, 1218 Komenda, Slovenia  
Phone: 0590 96610

### 1.4. Emergency telephone number

112

0590 96610

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP)

According to the regulation, the product is not classified as hazardous.

### 2.2 Label elements

#### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

EUH208 Contains Reakcijska zmes 5-kloro-2-metil-4-izotiazolin-3-on [EC št. 247-500-7] in 2-metil-2H -izotiazol-3-on [EC št. 220-239-6] (3:1). May produce an allergic reaction.

P102 Keep out of reach of children.

P501 Dispose of contents/container in accordance with national regulations.

#### 2.2.2. Contains:

-

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## 2.2.3. Special provisions

Special hazards are not known or expected.

## 2.3. Other hazards

No information.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

For mixtures see 3.2.

### 3.2. Mixtures

| Name   | CAS<br>EC<br>Index              | %       | Classification<br>according to<br>Regulation (EC)<br>No 1272/2008<br>(CLP)  | Specific<br>Conc. Limits  | REACH<br>Registration<br>No. |
|--|---------------------------------|---------|---|---|------------------------------|
| sodium 2-ethylhexanoate  | 19766-89-3<br>243-283-8<br>-    | 0,1-1   | Repr. 2; H361d  |   | -                            |
| Reakcijska zmes 5-kloro-2-metil-4-izotiazolin-3-on [EC št. 247-500-7] in 2-metil-2H -izotiazol-3-on [EC št. 220-239-6] (3:1) | 55965-84-9<br>-<br>613-167-00-5 | <0,0015 | Acute Tox. 3;<br>H301<br>Acute Tox. 2;<br>H310<br>Skin Corr. 1B;<br>H314<br>Skin Sens. 1A;<br>H317<br>Eye Dam. 1; H318<br>Acute Tox. 2;<br>H330<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410 | Skin Corr. 1B;<br>H314: C ≥ 0,6<br>%<br>Skin Irrit. 2;<br>H315: 0,06 %<br>≤ C < 0,6 %<br>Skin Sens. 1;<br>H317: C ≥<br>0,0015 %<br>Eye Irrit. 2;<br>H319: 0,06 %<br>≤ C < 0,6 % | -                            |

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

#### Following skin contact

Take off all contaminated clothing. If symptoms develop and persist, seek medical attention. Areas of the body that have come into contact with the product must be rinsed with water.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. In case of doubt or if feeling unwell seek medical help. Show the physician the safety data sheet or label.

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

### Inhalation

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### Skin contact

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### Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

### Ingestion

May cause nausea/vomiting and diarrhea.

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

-

## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

Full water jet.

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

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

### 5.3. Advice for firefighters

#### Protective actions

-

#### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Emergency procedures**

Ensure adequate ventilation.

#### 6.1.2. For emergency responders

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### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

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

### 6.3.1. For containment

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### 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor.

### 6.3.3. Other information

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## 6.4. Reference to other sections

See also Sections 8 and 13.

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## SECTION 7. HANDLING AND STORAGE

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### 7.1. Precautions for safe handling

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation.

##### **Measures to prevent aerosol and dust generation**

-

##### **Measures to protect the environment**

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

#### 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist.

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

#### 7.2.1. Technical measures and storage conditions

Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs.

#### 7.2.2. Packaging materials

The original container of producer.

#### 7.2.3. Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking.

#### 7.2.4. Storage class

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#### 7.2.5. Further information on storage conditions

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### 7.3. Specific end use(s)

#### **Recommendations**

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#### **Industrial sector specific solutions**

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Creation date: **19.10.2016** · Revision: **4.2.2022** · Version: **2**

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

No information.

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

#### 8.1.3. DNEL/DMEL values

##### For components

| Name                                 | Type     | Exposure route | Exposure frequency           | Value                 | Remark |
|--------------------------------------|----------|----------------|------------------------------|-----------------------|--------|
| sodium 2-ethylhexanoate (19766-89-3) | Worker   | dermal         | long term (systemic effects) | 2 mg/kg bw/day        |        |
| sodium 2-ethylhexanoate (19766-89-3) | Worker   | inhalation     | long term (systemic effects) | 14 mg/m <sup>3</sup>  |        |
| sodium 2-ethylhexanoate (19766-89-3) | Consumer | oral           | long term (systemic effects) | 1 mg/kg bw/day        |        |
| sodium 2-ethylhexanoate (19766-89-3) | Consumer | dermal         | long term (systemic effects) | 1 mg/kg bw/day        |        |
| sodium 2-ethylhexanoate (19766-89-3) | Consumer | inhalation     | long term (systemic effects) | 3,5 mg/m <sup>3</sup> |        |

#### 8.1.4. PNEC values

##### For components

| Name                                 | Exposure route              | Value        | Remark     |
|--------------------------------------|-----------------------------|--------------|------------|
| sodium 2-ethylhexanoate (19766-89-3) | fresh water                 | 0,36 mg/L    |            |
| sodium 2-ethylhexanoate (19766-89-3) | marine water                | 0,036 mg/L   |            |
| sodium 2-ethylhexanoate (19766-89-3) | water, intermittent release | 0,493 mg/L   |            |
| sodium 2-ethylhexanoate (19766-89-3) | fresh water sediment        | 0,301 mg/kg  | dry weight |
| sodium 2-ethylhexanoate (19766-89-3) | marine water sediment       | 0,0301 mg/kg | dry weight |
| sodium 2-ethylhexanoate (19766-89-3) | soil                        | 0,0579 mg/kg | dry weight |
| sodium 2-ethylhexanoate (19766-89-3) | water treatment plant       | 71,7 mg/L    |            |

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering control

##### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material.

##### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

#### 8.2.2. Personal protective equipment

##### Eye and face protection

Safety glasses with side protection (EN 166).

##### Hand protection

Protective gloves (EN 374).

##### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

##### Respiratory protection

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2015/830/EU

Product name: **EK-CRYOFUEL PREMIX CLEAR / SOLID**  
Creation date: **19.10.2016** · Revision: **4.2.2022** · Version: **2**

## Thermal hazards

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## 8.2.3. Environmental exposure controls

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

|                          |                            |
|--------------------------|----------------------------|
| - <b>Physical state:</b> | liquid                     |
| - <b>Colour:</b>         | according to specification |
| - <b>Odour:</b>          | characteristic             |

### Important health, safety and environmental information

|  |   |
|--|---|
| - <b>pH</b>                                  | ca. 8,25 at 20 °C                                       |
| - <b>Melting point/freezing point</b>        | No information.   |
| - <b>Initial boiling point/boiling range</b> | No information.   |
| - <b>Flash point</b>                         | No information.   |
| - <b>Evaporation rate</b>                    | No information.   |
| - <b>Flammability (solid, gas)</b>           | No information.   |
| - <b>Explosion limits (vol%)</b>             | No information.   |
| - <b>Vapour pressure</b>                     | No information.   |
| - <b>Vapour density</b>                      | No information.   |
| - <b>Density</b>                             | <b>Density:</b><br>ca. 1,005 g/cm <sup>3</sup> at 20 °C |
| - <b>Solubility</b>                          | <b>Water:</b><br>miscible                               |
| - <b>Partition coefficient</b>               | No information.   |
| - <b>Auto-ignition temperature</b>           | No information.   |
| - <b>Decomposition temperature</b>           | No information.   |
| - <b>Viscosity</b>                           | No information.   |
| - <b>Explosive properties</b>                | No information.   |
| - <b>Oxidising properties</b>                | No information.   |

### 9.2. Other information

|                   |  |
|-------------------|--|
| - <b>Remarks:</b> |  |
|-------------------|--|

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

-

### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. Possibility of hazardous reactions

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### 10.4. Conditions to avoid

No special precautions required. Consider the directions for use and storage.

**SAFETY DATA SHEET** according to Regulation 1907/2006 amended by 2015/830/EU

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 Creation date: **19.10.2016** · Revision: **4.2.2022** · Version: **2**

**10.5. Incompatible materials**

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**10.6. Hazardous decomposition products**

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

(a) Acute toxicity

| Name                                 | Exposure route       | Type             | Species | Time | Value           | Method   | Remark |
|--------------------------------------|----------------------|------------------|---------|------|-----------------|----------|--------|
| sodium 2-ethylhexanoate (19766-89-3) | oral                 | LD <sub>50</sub> | rat     |      | 2043 mg/kg bw   | OECD 401 |        |
| sodium 2-ethylhexanoate (19766-89-3) | dermal               | LD <sub>50</sub> | rat     |      | > 2000 mg/kg bw | OECD 402 |        |
| sodium 2-ethylhexanoate (19766-89-3) | inhalation (vapours) | LC <sub>0</sub>  | rat     | 8 h  | 0,11 mg/l       | OECD 403 |        |

(b) Skin corrosion/irritation

No information.

(c) Serious eye damage/irritation

No information.

(d) Respiratory or skin sensitisation

No information.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

| Name                                 | Reproductive toxicity type | Type | Species | Time | Value | Result   | Method | Remark          |
|--------------------------------------|----------------------------|------|---------|------|-------|--|--------|-----------------|
| sodium 2-ethylhexanoate (19766-89-3) | Teratogenicity             | oral | rat     |      |       | Increased incidence of malformations, delayed fetal growth, lower birth rates. |        | (2-EXA)         |
| sodium 2-ethylhexanoate (19766-89-3) | Teratogenicity             |      | mouse   |      |       | birth malformations  |        | intraperitoneal |

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

(i) STOT-repeated exposure

| Name                                 | Exposure route | Type | Species | Time | Organ | Value | Result   | Method | Remark |
|--------------------------------------|----------------|------|---------|------|-------|-------|--|--------|--------|
| sodium 2-ethylhexanoate (19766-89-3) | oral           | -    | rat     |      |       |       | 2-Ethylhexanoic acid (2-EXA) caused an increase in liver size and enzyme levels when repeatedly administered to rats via the diet. |        |        |

**SAFETY DATA SHEET** according to Regulation 1907/2006 amended by 2015/830/EU

Product name: **EK-CRYOFUEL PREMIX CLEAR / SOLID**  
Creation date: **19.10.2016** · Revision: **4.2.2022** · Version: **2**

(j) Aspiration hazard

No information.

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

12.1.1. Acute (short-term) toxicity

**For components**

| Substance (CAS Nr.)                  | Type             | Value      | Exposure time | Species | Organism               | Method   | Remark |
|--------------------------------------|------------------|------------|---------------|---------|------------------------|----------|--------|
| sodium 2-ethylhexanoate (19766-89-3) | LC <sub>50</sub> | > 100 mg/L | 96 h          | fish    | <i>Oryzias latipes</i> | OECD 203 |        |

12.1.2. Chronic (long-term) toxicity

No information.

**12.2. Persistence and degradability**

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

No information.

**12.3. Bioaccumulative potential**

12.3.1. Partition coefficient

No information.

12.3.2. Bioconcentration factor (BCF)

No information.

**12.4. Mobility in soil**

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

No information.

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

No evaluation.

**12.6. Other adverse effects**

No information.

**12.7. Additional information**

**For product**

Product is not classified as dangerous for environment.

**For components**

**Substance: sodium 2-ethylhexanoate**

Do not allow to reach ground water, water bodies or sewage systems.



# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by 2015/830/EU

Product name: **EK-CRYOFUEL PREMIX CLEAR / SOLID**  
Creation date: **19.10.2016** · Revision: **4.2.2022** · Version: **2**

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

##### **Waste chemical**

Dispose according to regulations.

##### **Waste codes / waste designations according to LoW**

20 01 99 - other fractions not otherwise specified

##### **Packaging**

Emptied container is suitable for recycling.

##### **Waste codes / waste designations according to LoW**

15 01 02 - plastic packaging

#### 13.1.2. Waste treatment-relevant information

-

#### 13.1.3. Sewage disposal-relevant information

-

#### 13.1.4. Other disposal recommendations

-

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

NO.

### 14.6. Special precautions for user

Not applicable.

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

Not applicable.

## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

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

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by  
2015/830/EU

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Creation date: **19.10.2016** · Revision: **4.2.2022** · Version: **2**

## 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

## 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16. OTHER INFORMATION

### Indication of changes

-

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development

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OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

Safety Data Sheet of raw material.

## List of relevant H phrases

H301 Toxic if swallowed.  
H310 Fatal in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H330 Fatal if inhaled.  
H361d Suspected of damaging the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.