

2-hydroxyethyl acrylate

Safety Data Sheet

According to Regulation (EU) 2015/830

Date of issue: 6/7/2018 Revision date: 5/13/2020 Version: 2.0

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

1.1. Product identifier

Product form : Substance
Trade name : 2-hydroxyethyl acrylate
CAS-No. : 818-61-1
Registration number : 01-2119459345-34-****

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

1.2.1. Relevant identified uses

Use of the substance/mixture : For more detail information, please refer to Annex.

1.2.2. Uses advised against

Restrictions on use : No information available

1.3. Details of the supplier of the safety data sheet

OR: REACH24H Consulting Group

Address: Paramount Court, Corrig Road, Sandyford, Dublin 18, Ireland

Email: reach@reach24h.com

1.4. Emergency telephone number

Emergency number : +86-519-68193722

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (dermal), Category 3 H311
Skin corrosion/irritation, Category 1B H314
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No information available.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS06

GHS09

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H400 - Very toxic to aquatic life.

Precautionary statements (CLP) :

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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 POISON CENTER or doctor.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on ingredients

3.1. Substances

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------------|---|------|---|
| 2-Hydroxyethyl acrylate | (CAS-No.) 818-61-1 (EC-No.) 212-454-9 (EC Index-No.) 607-072-00-8 | 98.7 | Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|-------------------------|---|-------------------------------|
| 2-Hydroxyethyl acrylate | (CAS-No.) 818-61-1 (EC-No.) 212-454-9 (EC Index-No.) 607-072-00-8 | (C >= 0.2) Skin Sens. 1, H317 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Remove contaminated clothing. Call a physician immediately. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Seek medical attention immediately. |
| First-aid measures after skin contact | : Rinse immediately with plenty of water (for at least 15 minutes). Take off immediately all contaminated clothing. Call a physician immediately. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : Rinse mouth. Do not induce vomiting. Drink plenty of water. Call a physician immediately. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects after skin contact | : Toxic in contact with skin. Burns. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : Burns. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | : No information available. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Reactivity in case of fire | : Hazardous polymerization may occur if exposure to fire conditions. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Protective measures, rules of conduct. |
|------------------|--|

6.1.1. For non-emergency personnel

| | |
|----------------------|---|
| Protective equipment | : Users of breathing apparatus must be trained. |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin, eyes and clothing. Do not breathe dust/fume/gas/mist/vapours/spray. |

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| Methods for cleaning up | : For a large spillage, contain the spillage by bunding. Recover small spills with a suitable absorbent, like diatomaceous earth. |
|-------------------------|---|

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Other information

: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Keep good industrial hygiene. Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Equipment cleaning and maintenance. Avoid high temperatures. Protect from heat and direct sunlight.

Hygiene measures

: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-Hydroxyethyl acrylate (818-61-1)

| | | |
|--------------------|---|-------------------------------|
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 5 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 1 ppm |
| Estonia | OEL TWA (mg/m ³) | 5 mg/m ³ |
| Estonia | OEL TWA (ppm) | 1 ppm |
| Estonia | OEL STEL (mg/m ³) | 10 mg/m ³ |
| Estonia | OEL STEL (ppm) | 2 ppm |
| Latvia | OEL TWA (mg/m ³) | 0.5 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 5 mg/m ³ |
| Lithuania | IPRV (ppm) | 1 ppm |
| Lithuania | TPRV (mg/m ³) | 10 mg/m ³ |
| Lithuania | TPRV (ppm) | 2 ppm |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 5 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 1 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 10 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 2 ppm |
| Russian Federation | OEL TWA (mg/m ³) | 0.5 mg/m ³ (vapor) |

2-hydroxyethyl acrylate (818-61-1)

DNEL/DMEL (Workers)

| | |
|--|-----------------------|
| Long-term - systemic effects, inhalation | 2.4 mg/m ³ |
|--|-----------------------|

DNEL/DMEL (General population)

| | |
|--|-----------------------|
| Long-term - systemic effects, inhalation | 1.2 mg/m ³ |
|--|-----------------------|

PNEC (Water)

| | |
|--------------------------|--------------|
| PNEC aqua (freshwater) | 0.0355 mg/l |
| PNEC aqua (marine water) | 0.00355 mg/l |

PNEC (Sediment)

| | |
|------------------------------|-------------------|
| PNEC sediment (freshwater) | 0.0355 mg/kg dwt |
| PNEC sediment (marine water) | 0.00355 mg/kg dwt |

PNEC (Soil)

| | |
|-----------|-------------------|
| PNEC soil | 0.00147 mg/kg dwt |
|-----------|-------------------|

PNEC (STP)

| | |
|-----------------------------|---------|
| PNEC sewage treatment plant | 10 mg/l |
|-----------------------------|---------|

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8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------------------------|
| Physical state | : Liquid |
| Colour | : Colourless. |
| Odour | : No data available. |
| Odour threshold | : No data available |
| pH | : No data available |
| pH solution | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : < -60 °C |
| Freezing point | : No data available |
| Boiling point | : 200.32 °C at 1013.25 hpa |
| Flash point | : 101 °C (cc) |
| Critical temperature | : No data available |
| Auto-ignition temperature | : 370 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not flammable |
| Vapour pressure | : 0.1 hPa at 20 °C |
| Vapour pressure at 50 °C | : No data available |
| Critical pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.0981 |
| Relative density of saturated gas/air mixture | : No data available |
| Density | : 1.0981 g/cm ³ at 30 °C |
| Relative gas density | : No data available |
| Solubility | : Water: miscible at 20 °C |
| Log Pow | : -0.17 at 25 °C |
| Log Kow | : No data available |
| Viscosity, kinematic | : 9.608 mm ² /s |
| Viscosity, dynamic | : 10.55 mPa.s at 29.9 °C |
| Explosive properties | : Product is not explosive. |
| Oxidising properties | : Non oxidizing. |
| Explosive limits | : No data available |
| Lower explosive limit (LEL) | : No data available |
| Upper explosive limit (UEL) | : No data available |
| Surface tension | : Not applicable / not surface active |

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|---------------------------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Dermal: Toxic in contact with skin. |
| Acute toxicity (inhalation) | : Not classified |

2-hydroxyethyl acrylate (818-61-1)

| | |
|--------------------|-----------|
| LD50 dermal rabbit | 298 mg/kg |
|--------------------|-----------|

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Corrosive, causes severe skin burns. pH: No data available |
| Serious eye damage/irritation | : Causes severe eye damage pH: No data available |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|--------------------------|-------------------------------|
| Ecology - general | : Very toxic to aquatic life. |
| Acute aquatic toxicity | : Very toxic to aquatic life. |
| Chronic aquatic toxicity | : Not classified |

12.2. Persistence and degradability

2-hydroxyethyl acrylate (818-61-1)

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

12.3. Bioaccumulative potential

2-hydroxyethyl acrylate (818-61-1)

| | |
|---------------------------|------------------------------|
| Log Pow | -0.17 at 25 °C |
| Log Kow | No data available |
| Bioaccumulative potential | There is no bioaccumulation. |

2-Hydroxyethyl acrylate (818-61-1)

| | |
|------------|---------------------------|
| BCF fish 1 | No information available. |
|------------|---------------------------|

12.4. Mobility in soil

2-hydroxyethyl acrylate (818-61-1)

| | |
|----------------|---------------------------|
| Ecology - soil | No information available. |
|----------------|---------------------------|

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12.5. Results of PBT and vPvB assessment

2-hydroxyethyl acrylate (818-61-1)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|--|--|---|---|---|
| 14.1. UN number | | | | |
| UN 2922 | UN 2922 | UN 2922 | UN 2922 | UN 2922 |
| 14.2. UN proper shipping name | | | | |
| CORROSIVE LIQUID, TOXIC, N.O.S. (2-Hydroxyethyl acrylate) | CORROSIVE LIQUID, TOXIC, N.O.S. (2-Hydroxyethyl acrylate) | Corrosive liquid, toxic, n.o.s. (2-Hydroxyethyl acrylate) | CORROSIVE LIQUID, TOXIC, N.O.S. (2-Hydroxyethyl acrylate) | CORROSIVE LIQUID, TOXIC, N.O.S. (2-Hydroxyethyl acrylate) |
| Transport document description | | | | |
| UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (2-Hydroxyethyl acrylate), 8 (6.1), II, (E), ENVIRONMENTALLY HAZARDOUS | UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (2-Hydroxyethyl acrylate), 8 (6.1), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 2922 Corrosive liquid, toxic, n.o.s. (2-Hydroxyethyl acrylate), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS | UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (2-Hydroxyethyl acrylate), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS | UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (2-Hydroxyethyl acrylate), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es) | | | | |
| 8 (6.1) | 8 (6.1) | 8 (6.1) | 8 (6.1) | 8 (6.1) |
| Pictograms: Corrosive (C) and Environment (E) (Skull and crossbones, and dead tree/fish). | Pictograms: Corrosive (C) and Environment (E) (Skull and crossbones, and dead tree/fish). | Pictograms: Corrosive (C) and Environment (E) (Skull and crossbones, and dead tree/fish). | Pictograms: Corrosive (C) and Environment (E) (Skull and crossbones, and dead tree/fish). | Pictograms: Corrosive (C) and Environment (E) (Skull and crossbones, and dead tree/fish). |
| 14.4. Packing group | | | | |
| II | II | II | II | II |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

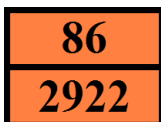
| | |
|---|---------------|
| Classification code (ADR) | : CT1 |
| Special provisions (ADR) | : 274 |
| Limited quantities (ADR) | : 1I |
| Excepted quantities (ADR) | : E2 |
| Packing instructions (ADR) | : P001, IBC02 |
| Mixed packing provisions (ADR) | : MP15 |
| Portable tank and bulk container instructions (ADR) | : T7 |

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| | |
|---|--------------|
| Portable tank and bulk container special provisions (ADR) | : TP2 |
| Tank code (ADR) | : L4BN |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 2 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13, CV28 |
| Hazard identification number (Kemler No.) | : 86 |
| Orange plates | : |



| | |
|-------------------------------|------|
| Tunnel restriction code (ADR) | : E |
| EAC code | : 2X |
| APP code | : B |

Transport by sea

| | |
|------------------------------------|--|
| Special provisions (IMDG) | : 274 |
| Limited quantities (IMDG) | : 1 L |
| Excepted quantities (IMDG) | : E2 |
| Packing instructions (IMDG) | : P001 |
| IBC packing instructions (IMDG) | : IBC02 |
| Tank instructions (IMDG) | : T7 |
| Tank special provisions (IMDG) | : TP2 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-B |
| Stowage category (IMDG) | : B |
| Stowage and handling (IMDG) | : SW2 |
| Properties and observations (IMDG) | : Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by skin contact or by inhalation. |

Air transport

| | |
|--|------------|
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y840 |
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA) | : 851 |
| PCA max net quantity (IATA) | : 1L |
| CAO packing instructions (IATA) | : 855 |
| CAO max net quantity (IATA) | : 30L |
| Special provisions (IATA) | : A3, A803 |
| ERG code (IATA) | : 8P |

Inland waterway transport

| | |
|-----------------------------------|------------------|
| Classification code (ADN) | : CT1 |
| Special provisions (ADN) | : 274, 802 |
| Limited quantities (ADN) | : 1 L |
| Excepted quantities (ADN) | : E2 |
| Equipment required (ADN) | : PP, EP, TOX, A |
| Ventilation (ADN) | : VE02 |
| Number of blue cones/lights (ADN) | : 2 |

Rail transport

| | |
|---|---------------|
| Classification code (RID) | : CT1 |
| Special provisions (RID) | : 274 |
| Limited quantities (RID) | : 1L |
| Excepted quantities (RID) | : E2 |
| Packing instructions (RID) | : P001, IBC02 |
| Mixed packing provisions (RID) | : MP15 |
| Portable tank and bulk container instructions (RID) | : T7 |
| Portable tank and bulk container special provisions (RID) | : TP2 |
| Tank codes for RID tanks (RID) | : L4BN |
| Transport category (RID) | : 2 |

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| | |
|---|--------------|
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW28 |
| Colis express (express parcels) (RID) | : CE6 |
| Hazard identification number (RID) | : 86 |

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

2-hydroxyethyl acrylate is not on the REACH Candidate List

2-hydroxyethyl acrylate is not on the REACH Annex XIV List

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, significant hazard to waters (Classification according to AwSV; ID No. 1724)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

| | |
|---------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BLV | Biological limit value |
| CAS-No. | Chemical Abstract Service number |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| EC-No. | European Community number |
| EN | European Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |

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| | |
|-------|---|
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |
| WGK | Water Hazard Class |

Data sources : ECHA reference.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:

| | |
|------|--|
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H400 | Very toxic to aquatic life. |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product