

**Safety Data Sheet**

according to UK REACH Regulation

Hardener LT

Revision date: 19.12.2023

Product code: 112125

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Hardener LT

UFI: GFH0-QA9N-900W-69C2

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

epoxy resin hardener

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company name: R&G Faserverbundwerkstoffe GmbH

Street: Im Meißel 7 - 13

Place: D-71111 Waldenbuch

Post-office box: 1145

D-71107 Waldenbuch

Telephone: +49-7157-530460

Telefax: +49-7157-530470

E-mail: info@r-g.de

Contact person: Michael Groß

E-mail: info@r-g.de

Internet: www.r-g.de

Responsible Department: Management

1.4. Emergency telephone number:

Vergiftungs-Informations-Zentrale Freiburg

Tel: +49 (0)761 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 4; H302

Acute Tox. 4; H312

Skin Corr. 1B; H314

Eye Dam. 1; H318

Skin Sens. 1; H317

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group

3,6-diazaoctanethylenediamin; triethylenetetramine

Signal word: Danger**Pictograms:****Hazard statements**

H302+H312

Harmful if swallowed or in contact with skin.

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| | |
|------|--|
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H317 | May cause an allergic skin reaction. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|----------------|--|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| 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/doctor. |
| P405 | Store locked up. |
| P501 | Dispose of waste according to applicable legislation. |

2.3. Other hazards

Results of PBT and vPvB assessment: not applicable

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Hardener

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-----------|--|--------------|------------------|------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | | | 50 - 100 % |
| | 220-666-8 | 612-067-00-9 | 01-2119514687-32 | |
| | Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317 | | | |
| 9046-10-0 | Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group | | | 10 - 25 % |
| | 618-561-0 | | | |
| | Skin Corr. 1B, Eye Dam. 1, Aquatic Chronic 3; H314 H318 H412 | | | |
| 112-24-3 | 3,6-diazaoctane-1,8-diamine | | | 2,5-10% |
| | 203-950-6 | 612-059-00-5 | 01-2119487919-13 | |
| | Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-----------|---|---|------------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 2855-13-2 | 220-666-8 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 50 - 100 % |
| | dermal: LD50 = 1840 mg/kg; oral: ATE 1030 mg/kg Skin Sens. 1A; H317: >= 0,001 - 100 | | |
| 9046-10-0 | 618-561-0 | Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group | 10 - 25 % |
| | dermal: LD50 = 2980 mg/kg; oral: LD50 = 2885 mg/kg | | |
| 112-24-3 | 203-950-6 | 3,6-diazaoctane-1,8-diamine | 2,5-10% |
| | dermal: LD50 = 1465 mg/kg; oral: LD50 = 1716 mg/kg | | |

SECTION 4: First aid measures**4.1. Description of first aid measures**



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General information

Take off immediately all contaminated clothing.

After inhalation

Remove casualty to fresh air and keep warm and at rest. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Let water be drunken in little sips (dilution effect). Provide fresh air. Call a physician immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Extinguishing powder, Water spray jet.

In case of major fire and large quantities: Water spray jet, alcohol resistant foam

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Gases/vapours, toxic

5.3. Advice for firefighters

Use suitable breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Use personal protection equipment. Evacuate area.

For non-emergency personnel

No information available.

For emergency responders

No information available.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Collect and dispose of contaminated water.

6.3. Methods and material for containment and cleaning up

For containment

No information available.

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For cleaning up

No information available.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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

The usual precautions when handling chemicals must be observed. Keep receptacles tightly sealed.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a dry place. Keep/Store only in original container. Provide for retaining containers, e.g. floor pan without outflow.

Hints on joint storage

Do not store together with: Food and feedingstuffs

Further information on storage conditions

Protect against: FrostProtect against the effects of heat and direct sunlight.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL/DMEL values**

| CAS No | Substance | Exposure route | Effect | Value |
|--------------|--|----------------|----------|------------------------|
| DNEL type | | | | |
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | | | |
| Worker DNEL, | | inhalation | | 20,1 mg/m ³ |
| 112-24-3 | 3,6-diazaoctane-1,8-diamine | | | |
| Worker DNEL, | | dermal | systemic | 5380 mg/kg bw/day |
| Worker DNEL, | | inhalation | systemic | 1 mg/m ³ |

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PNEC values

| CAS No | Substance | |
|---------------------------|---|-------------|
| Environmental compartment | | Value |
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | |
| Freshwater | | 0,06 mg/l |
| Marine water | | 0,006 mg/l |
| 9046-10-0 | Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group | |
| Freshwater | | 0,015 mg/l |
| Marine water | | 0,0142 mg/l |
| 112-24-3 | 3,6-diazaoctane-1,8-diamine | |
| Freshwater | | 0,135 mg/l |
| Marine water | | 0,0027 mg/l |

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tightly sealed safety glasses.

Hand protection

Wear protective gloves.

Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber)

Thickness of the glove material $\geq 0,5$ mm

Unsuitable material: Leather articles

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. (Category III) The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Check leak tightness/impermeability prior to use. Breakthrough times and swelling properties of the material must be taken into consideration.

Penetration time of the glove material The exact penetration time must be obtained from the protective glove manufacturer and must be observed.

Value for permeation: Level = 6

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

short-term:

Filtering device (full mask or mouthpiece) with filter: A-P2

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | | |
|---|----------------|------------------------|
| Physical state: | Liquid | |
| Colour: | yellow | |
| Odour: | like: Amines | |
| Odour threshold: | not determined | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | > 200 °C |
| Flammability: | | not applicable |
| | | not applicable |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Flash point: | | > 100 °C |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not determined |
| pH-Value: | | not applicable |
| Viscosity / kinematic: | | not determined |
| Water solubility: | | Immiscible |
| Solubility in other solvents | | |
| not determined | | |
| Partition coefficient n-octanol/water: | | not determined |
| Vapour pressure: | | not determined |
| Density (at 23 °C): | | 0,93 g/cm ³ |
| Relative vapour density: | | not determined |

9.2. Other information**Information with regard to physical hazard classes****Explosive properties**

The product is not: Explosive.

Self-ignition temperature

Solid:

The product is not: Spontaneously flammable.

Gas:

The product is not: Spontaneously flammable.

Oxidizing properties

Not oxidising.

Other safety characteristics

Evaporation rate:

not determined

Viscosity / dynamic:
(at 25 °C)

not determined

Further Information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Thermal decomposition: none

10.3. Possibility of hazardous reactions

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No known hazardous reactions.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

In case of fire may be liberated: Gases/vapours, toxic, Gases/vapours, corrosive

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Harmful if swallowed.

Harmful in contact with skin.

ATEmix calculated

ATE (oral) 1205 mg/kg; ATE (dermal) 1999 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|-----------|---|-----------------|---------|--------------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | | | | |
| | oral | ATE 1030 mg/kg | | | |
| | dermal | LD50 1840 mg/kg | Rabbit | Manufacturer | |
| 9046-10-0 | Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group | | | | |
| | oral | LD50 2885 mg/kg | Rat | Manufacturer | |
| | dermal | LD50 2980 mg/kg | Rabbit | Manufacturer | |
| 112-24-3 | 3,6-diazaoctane-1,8-diamine | | | | |
| | oral | LD50 1716 mg/kg | rat | | |
| | dermal | LD50 1465 mg/kg | rat | | |

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; 3,6-diazaoctane-1,8-diamine)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

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Endocrine disrupting properties

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| CAS No | Chemical name | | | | | |
|-----------|---|-----------------|-----------|--------------------------------------|--------------|-----------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | | | | | |
| | Acute fish toxicity | LC50 110 mg/l | 96 h | Leuciscus idus (golden orfe) | Manufacturer | EG 88/449 |
| | Acute algae toxicity | ErC50 > 50 mg/l | 72 h | Scenedesmus subspicatus | Manufacturer | EG 88/302 |
| | Acute crustacea toxicity | EC50 23 mg/l | 48 h | Daphnia magna (Big water flea) | Manufacturer | OECD 202 |
| 9046-10-0 | Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl group | | | | | |
| | Acute fish toxicity | LC50 >15 mg/l | 96 h | Oncorhynchus mykiss | | |
| | Acute algae toxicity | ErC50 15 mg/l | 72 h | Pseudokirchneriella subcapitata | | |
| | Acute crustacea toxicity | EC50 80 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| 112-24-3 | 3,6-diazaoctane-1,8-diamine | | | | | |
| | Acute fish toxicity | LC50 330 mg/l | 96 h | Pimephales promelas (fathead minnow) | | |
| | Acute algae toxicity | ErC50 20 mg/l | 72 h | Selenastrum capricornutum (Grünalge) | | |
| | Acute crustacea toxicity | EC50 31 mg/l | 48 h | Daphnia magna | | |
| | Acute bacteria toxicity | (EC50 137 mg/l) | | Pseudomonas putida | | |

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.
not applicable

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
No information available.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Undiluted or nonneutralised product may not enter waste water channel or main outfall.
hazardous to water (WGK 2)

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SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Product can be disposed of with household waste after curing.

Liquid: Send to a hazardous waste incinerator facility under observation of official regulations.

List of Wastes Code - residues/unused products

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

List of Wastes Code - used product

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 2735

14.2. UN proper shipping name:

AMINE, FLÜSSIG, ÄTZEND, N.A.G.
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMIN;
ISOPHORONDIAMIN;
REAKTIONSPRODUKT VON PROPAN-1,2-DIOL, PROPOXYLIERT
DURCH AMINIERUNG DER TERMINALEN HYDROXYLGRUPPE)

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Classification code:

C7

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

2

Hazard No:

80

Tunnel restriction code:

E

Other applicable information (land transport)

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Inland waterways transport (ADN)**14.1. UN number or ID number:**

UN 2735

14.2. UN proper shipping name:

AMINE, FLÜSSIG, ÄTZEND, N.A.G.
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMIN;
ISOPHORONDIAMIN;
REAKTIONSPRODUKT VON PROPAN-1,2-DIOL, PROPOXYLIERT
DURCH AMINIERUNG DER TERMINALEN HYDROXYLGRUPPE)

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14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Classification code:

C7

Limited quantity:

5 L

Excepted quantity:

E1

Marine transport (IMDG)**14.1. UN number or ID number:**

UN 2735

14.2. UN proper shipping name:AMINES, LIQUID, CORROSIVE, N.O.S.
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE;
ISOPHORONEDIAMINE; REACTION PRODUCT OF
PROPANE-1,2-DIOL, PROPOXYLATED BY AMINATION OF THE
TERMINAL HYDROXYL GROUP)**14.3. Transport hazard class(es):**

8

14.4. Packing group:

III

Hazard label:

8



Marine pollutant:

-

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-B

Segregation group:

18 - alkalis

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:**

UN 2735

14.2. UN proper shipping name:AMINES, LIQUID, CORROSIVE, N.O.S.
(3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE;
ISOPHORONEDIAMINE; REACTION PRODUCT OF
PROPANE-1,2-DIOL, PROPOXYLATED BY AMINATION OF THE
TERMINAL HYDROXYL GROUP)**14.3. Transport hazard class(es):**

8

14.4. Packing group:

III

Hazard label:

8



Limited quantity Passenger:

5 L

Excepted quantity:

E1

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

14.6. Special precautions for user

Warning: Substances, corrosive

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2004/42/EC (VOC): 0,0 %

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information



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Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>
Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Eye Dam: Eye damage
Skin Sens: Skin sensitisation
Aquatic Chronic: Chronic aquatic hazard

Relevant H and EUH statements (number and full text)

| | |
|-----------|--|
| H302 | Harmful if swallowed. |
| H302+H312 | Harmful if swallowed or in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.



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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)