

according to UK REACH Regulation

TIP TOP ECLON EP 2K EPOXY DS STEEL PRIMER

Revision date: 20.07.2023

Product code: 00359-1266

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

1.1. Product identifier

TIP TOP ECLON EP 2K EPOXY DS STEEL PRIMER

Art.-No.

580 1000

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

Use of the substance/mixture

Protection against corrosion

1.3. Details of the supplier of the safety data sheet

Manufacturer

| Manufacturer | | |
|--------------------------|--|--------------------------------------|
| Company name: | TIP TOP Oberflaechenschutz Elbe Gr | mbH |
| Street: | Heuweg 4 | |
| Place: | D-06886 Wittenberg | |
| Telephone: | +49(0)3491/635-50 | Telefax:+49(0)3491/635-552 |
| Responsible Department: | Responsible for the safety data sheet: | sds@gbk-ingelheim.de |
| Supplier | | |
| Company name: | REMA TIP TOP INDUSTRY UK LTD | |
| Street: | Plumtree Industrial Estate, Harworth | |
| Place: | Doncaster, DN11 8EW, South Yorks | hire |
| Telephone: | +44 (0)1302 711233 | |
| Internet: | www.rema-tiptop.co.uk | |
| 1.4. Emergency telephone | INTERNATIONAL: +49 - (0) 6132 - 84 | l463, GBK GmbH (24h - 7d/w - 365d/a) |
| <u>number:</u> | In England and Wales: NHS 111 In So | cotland: NHS 24 - dial 111 |
| | | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700 < x < 1100) Xylene (mixed isomers)

Signal word: Pictograms: Warning



Hazard statements

H226

Flammable liquid and vapour.



according to UK REACH Regulation

| TIP 7 | ΓΟΡ | ECLON | EP | 2K EF | νοχ | DS | STEEL | PRIMER |
|-------|-----|--------------|----|-------|-----|----|-------|--------|
|-------|-----|--------------|----|-------|-----|----|-------|--------|

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|--|--|--------------|
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H319 | Causes serious eye irritation. | |
| H373 | May cause damage to organs through prolonged or repeated exposure. | |
| H412 | Harmful to aquatic life with long lasting effects. | |
| Precautionary statemer | nts | |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. | |
| P260 | Do not breathe vapour. | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | |
| P370+P378 | In case of fire: Use Dry chemical, Sand to extinguish. | |
| P403+P235 | Store in a well-ventilated place. Keep cool. | |
| P273 | Avoid release to the environment. | |
| 2.3. Other hazards | | |
| According to Regula PBT / vPvB substand | tion (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a ce. | |
| The mixture does no | t contain substance(s) included in the list established in accordance with Article 59(1) of | |
| REACH for having e | ndocrine disrupting properties, or is not identified as having endocrine disrupting properties | |
| in accordance with the | ne criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission | |
| Regulation (EU) 201 | 8/605 | |
| , | and a size weight use weight aim | |

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Epoxy resin formulation, contains solvents



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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|---|---------------------------------|-----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 25068-38-6 | Reaction product: bisphe 700 < x < 1100) | enol-A-(epichlorhydrin) epoxy resin (| number average molecular weight | 25 - 40 % |
| | | | | |
| | Skin Irrit. 2, Eye Irrit. 2, S | Skin Sens. 1; H315 H319 H317 | | |
| 1330-20-7 | Xylene (mixed isomers) | | | 10 - 15 % |
| | 215-535-7 | 601-022-00-9 | 01-2119488216-32 | |
| | | 4, Acute Tox. 4, Skin Irrit. 2, Eye Irri 3; H226 H332 H312 H315 H319 H33 | | |
| 100-41-4 | Ethyl benzene | | | 2,5 - 5 % |
| | 202-849-4 | 601-023-00-4 | 01-2119489370-35 | |
| | Flam. Liq. 2, Acute Tox. H412 | 4, STOT RE 2, Asp. Tox. 1, Aquatic | Chronic 3; H225 H332 H373 H304 | |
| 107-98-2 | 1-Methoxy-2-propanol | | | 1 - 5 % |
| | 203-539-1 | 603-064-00-3 | 01-2119457435-35 | |
| | Flam. Liq. 3, STOT SE 3 | ; H226 H336 | • | |
| - | Hydrocarbons, C9, arom | atics | | 1 - 5 % |
| | 918-668-5 | | 01-2119455851-35 | |
| | Flam. Liq. 3, STOT SE 3 H411 EUH066 | , STOT SE 3, Asp. Tox. 1, Aquatic (| Chronic 2; H226 H335 H336 H304 | |

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 | | | |
| 1330-20-7 | 215-535-7 | Xylene (mixed isomers) | | |
| | inhalation: ATE = 11 mg/l (vapours); dermal: ATE = 1100 mg/kg | | | |
| 100-41-4 | 202-849-4 | Ethyl benzene | 2,5 - 5 % | |
| inhalation: C50 = 17.2 mg/l (vapours): dermal: D50 = 15400 mg/kg; oral: D50 = 3500 mg/kg | | | | |

Further Information

According to note P to the regulation (EC) no. 1272/2008, "Solvent naphta (petroleum)" is not to be classified as "carcinogenic" or "mutagen" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

According to note P to the regulation (EC) no. 1272/2008, "Naphta (petroleum)" is not to be classified as "carcinogenic" or "mutagen" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

Keep warm and calm injured person.

If patient is not breathing, apply artificial respiration.



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Seek medical treatment immediately.

After contact with skin

In case of contact with skin wash off immediately with soap and water. Do not use solvents or thinners. Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Induce vomiting only upon the advice of a physician.

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

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Fire may produce: carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) High smoke development

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Vapours are heavier than air and spread along ground. The vapour/air mixture is explosive, even in empty, uncleaned receptacles. Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away sources of ignition. Use only explosion-proof equipment. Ensure adequate ventilation. Remove persons to safety.

For non-emergency personnel

Do not breathe vapours.



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Avoid contact with skin, eyes and clothing.

For emergency responders

In case of vapour formation use respirator. Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8). Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not wear contact lenses when handling the product. Keep container tightly closed. Vapours are heavier than air and spread along ground. Keep a good ventilation and air-exhaust at the place of work. Do not empty container under pressure. No pressure tank!

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. Do not smoke. Take precautionary measures against static discharges. Use only explosion-proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place. Pay attention to anti-explosion rules. Take precautionary measures against static discharges. Storage temperature between 15°C to 30°C

Hints on joint storage

Incompatible with:

strong oxidizing agents, strong acids and strong bases

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Protection against corrosion

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|-----------|-----------------------|-----|-------|-----------|---------------|--------|
| 107-98-2 | 1-Methoxypropan-2-ol | 100 | 375 | | TWA (8 h) | WEL |
| | | 150 | 560 | | STEL (15 min) | WEL |
| 100-41-4 | Ethylbenzene | 100 | 441 | | TWA (8 h) | WEL |
| | | 125 | 552 | | STEL (15 min) | WEL |
| 1330-20-7 | Xylene: mixed isomers | 50 | 220 | | TWA (8 h) | WEL |
| - | | 100 | 441 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|-----------|-------------------------------------|--------------------------------------|-----------------|---------------|---------------|
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid (creatinine) | 650 mmol/mol | | Post shift |

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Protective gloves resistant to chemicals made of nitrile, minimum coat thickness 0.4 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Solvent-resistant apron (EN 467).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: | Liquid |
|-----------------|----------------|
| Colour: | Various |
| Odour: | Characteristic |

pH-Value:

Changes in the physical state



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| | | Tage / 0112 |
| Melting point/freezing point: Boiling point or initial boiling point and boiling range: | n.d. 139 °C | *) |
| Sublimation point: | n.a. | |
| Softening point: | n.d. | |
| Flash point: | 24 °C | DIN 53213 |
| Sustaining combustion: | Sustaining combustion | |
| Flammability Solid/liquid: | n.a. | |
| Explosive properties The product is considered non-explos | ive; nevertheless explosive vapour/air mixture can be | generated. |
| Lower explosion limits: | 0,89 vol. % | **) |
| Upper explosion limits: | 13,7 vol. % | |
| Auto-ignition temperature: | 287 °C | **) |
| Self-ignition temperature | | |
| Solid: | n.a. | |
| Gas: | n.a. | |
| Decomposition temperature: | n.d. | |
| Oxidizing properties Not oxidising. | | |
| Vapour pressure: (at 20 °C) | 1,12 hPa | |
| Density (at 20 °C): | 1,58 g/cm³ | |
| Bulk density: | n.a. | |
| Water solubility: | Immiscible | |
| Solubility in other solvents n.d. | | |
| Partition coefficient n-octanol/water: | n.d. | |
| Viscosity / dynamic: | 650 - 800 mPa·s | |
| Viscosity / kinematic: (at 40 °C) | > 20,5 mm²/s | |
| Flow time: (at 20 °C) | n.d. | |
| Relative vapour density: | n.d. | |
| Evaporation rate: | n.d. | |
| Solvent separation test: | < 3 % | |
| Solvent content: | 23 % | |
| 9.2. Other information | | |
| Solid content: | 77 % | |
| *) Xylene (mixed isomers)**) 1-Methoxy-2-propanol | | |
| SECTION 10: Stability and reactivity | | |

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability



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Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Vapour/air mixtures are explosive at intensive warming. Heating can release vapours which can be ignited.

10.5. Incompatible materials

Strong oxidizing agents Strong acids and strong bases

10.6. Hazardous decomposition products

No hazardous decomposition products known. Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met. No toxicological data available.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) 7857 mg/kg; ATE (inhalation vapour) 64,20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Causes skin irritation. Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight 700 < x < 1100))

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

May cause damage to organs through prolonged or repeated exposure. (Xylene (mixed isomers))

Aspiration hazard

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

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Components of the product may be absorbed into the body through the skin.

Contact with eyes may cause irritation.

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.



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Attention. Beware, danger of aspiration!

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available. Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data 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.

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.

12.7. Other adverse effects

Hazardous water pollutant.

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Where possible recycling is preferred to disposal. Can be incinerated, when in compliance with local regulations.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product. Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)

| <u>14.1. UN number:</u> | UN 1263 |
|-----------------------------------|---------|
| 14.2. UN proper shipping name: | Paint |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | III |
| Hazard label: | 3 |
| | * |



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| Revision date: 20.07.2023 | Product code: 00359-1266 | Page 10 of 12 | |
| Classification code: | F1 | | |
| Limited quantity: | 5 L / 30 kg | | |
| Excepted quantity: | E1 | | |
| Transport category: Hazard No: | 3 30 | | |
| Tunnel restriction code: | D/E | | |
| Inland waterways transport (ADN) | | | |
| <u>14.1. UN number:</u> | UN 1263 | | |
| 14.2. UN proper shipping name: | Paint | | |
| 14.3. Transport hazard class(es): | 3 | | |
| 14.4. Packing group: | III | | |
| Hazard label: | 3 | | |
| | | | |
| | | | |
| | 3 | | |
| Classification code: Limited quantity: | F1 5 L / 30 kg | | |
| Excepted quantity: | E1 | | |
| Marine transport (IMDG) | | | |
| <u>14.1. UN number:</u> | UN 1263 | | |
| 14.2. UN proper shipping name: | Paint (Epoxy resin) | | |
| 14.3. Transport hazard class(es): | 3 | | |
| 14.4. Packing group: | III | | |
| Hazard label: | 3 | | |
| | | | |
| Marine pollutant: | Yes | | |
| Limited quantity: | 5 L / 30 kg | | |
| Excepted quantity: FmS: | E1 | | |
| Air transport (ICAO-TI/IATA-DGR) | F-E, S-E | | |
| <u>14.1. UN number:</u> | UN 1263 | | |
| <u>14.2. UN proper shipping name:</u> | Paint | | |
| 14.3. Transport hazard class(es): | 3 | | |
| 14.4. Packing group: | | | |
| Hazard label: | 3 | | |
| | | | |
| Limited quantity Passenger: | 10 L | | |
| Passenger LQ: | Y344 | | |
| Excepted quantity: | E1 | | |
| IATA-packing instructions - Passenger: | 355 | | |
| IATA-max. quantity - Passenger: | 60 L | | |
| IATA-packing instructions - Cargo: IATA-max. quantity - Cargo: | 366 220 L | | |

14.5. Environmental hazards



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ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practices.

14.7. Maritime transport in bulk according to IMO instruments

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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 40, Entry 75 | · |
|--|---|
| 2010/75/EU (VOC): | 362 g/l |
| Information according to 2012/18/EU (SEVESO III): | P5c FLAMMABLE LIQUIDS |
| National regulatory information | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
| Water hazard class (D): | 2 - obviously hazardous to water |
| 5.2 Chamical safety assessment | |

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,6,7,9,10,11,12,14,15.

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure IMDG = International Maritime Code for Dangerous Goods IATA/ICAO = International Air Transport Association / International Civil Aviation Organization MARPOL = International Convention for the Prevention of Pollution from Ships IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk GHS = Globally Harmonized System of Classification and Labelling of Chemicals REACH = Registration, Evaluation, Authorization and Restriction of Chemicals CAS = Chemical Abstract Service EN = European norm ISO = International Organization for Standardization DIN = Deutsche Industrie Norm PBT = Persistent Bioaccumulative and Toxic vPvB = Very Persistent and very Bio-accumulative LD = Lethal dose LC = Lethal concentration EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration



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Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 3; H226 | On basis of test data |
| Skin Irrit. 2; H315 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |
| Skin Sens. 1; H317 | Calculation method |
| STOT RE 2; H373 | Calculation method |
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| H225 | Highly flammable liquid and vapour. |
|--------|--|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| FUH066 | Repeated exposure may cause skin drypess or cracking |

EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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