

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## ESKANOL M50 HARDENER

Revision date: 01.04.2021

Product code: 00359-1290

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

#### 1.1. Product identifier

ESKANOL M50 HARDENER

##### Art.-No.

10095, 10096, 10097, 10098

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

##### Use of the substance/mixture

Hardener

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

Company name: TIP TOP Oberflächenschutz Elbe GmbH

Street: Heuweg 4

Place: D-06886 Wittenberg

Telephone: +49(0)3491/635-50

Telefax: +49(0)3491/635-552

Contact person: Laborleiter

Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

#### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No. 1272/2008

Hazard categories:

Self-reactive substance or mixture: Self-react. D

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Reproductive toxicity: Repr. 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Heating may cause a fire.

Harmful if swallowed.

Harmful if inhaled.

Causes severe skin burns and eye damage.

Causes serious eye damage.

Suspected of damaging the unborn child.

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Hazard components for labelling

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide

Hydrogen peroxide

Signal word: Danger

##### Pictograms:



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### Hazard statements

- H242 Heating may cause a fire.  
H302+H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H361d Suspected of damaging the unborn child.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

- P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P234 Keep only in original packaging.  
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 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.  
P411+P235 Store at temperatures not exceeding 30 °C/86 °F. Keep cool.

### Labelling of packages where the contents do not exceed 125 ml

**Signal word:** Danger**Pictograms:**

### Hazard statements

H314-H361d-H412

### Precautionary statements

P201-P202-P280-P303+P361+P353-P305+P351+P338-P310-P405

### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

Vapours may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture containing following substances with additives

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### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
6846-50-0	1-isopropyl-2,2-dimethyltrimethylene diisobutyrate			40 - 50 %
	229-934-9		01-2119451093-47	
	Repr. 2, Aquatic Chronic 3; H361d H412			
1338-23-4	Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide			30 - 35 %
	700-954-4		01-2119514691-43	
	Self-react. D, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H242 H332 H302 H314 H318			
123-42-2	Diacetone alcohol			5 - 15 %
	204-626-7	603-016-00-1	01-2119473975-21	
	Flam. Liq. 3, Eye Irrit. 2, STOT SE 3; H226 H319 H335			
78-93-3	Butanone			1 - 3 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
7722-84-1	Hydrogen peroxide			1 - 3 %
	231-765-0	008-003-00-9	01-2119485845-22	
	Ox. Liq. 1, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3, Aquatic Chronic 3; H271 H332 H302 H314 H318 H335 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		
1338-23-4	700-954-4	Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide	30 - 35 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500 mg/kg		
123-42-2	204-626-7	Diacetone alcohol	5 - 15 %
	dermal: LD50 = 13630 mg/kg; oral: LD50 = 2520 mg/kg Eye Irrit. 2; H319: >= 10 - 100		
78-93-3	201-159-0	Butanone	1 - 3 %
	dermal: LD50 = > 8000 mg/kg; oral: LD50 = 3400 mg/kg		
7722-84-1	231-765-0	Hydrogen peroxide	1 - 3 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 3000 mg/kg; oral: LD50 = 418 - 445 mg/kg Ox. Liq. 1; H271: >= 70 - 100 Ox. Liq. 2; H272: >= 50 - < 70 Skin Corr. 1A; H314: >= 70 - 100 Skin Corr. 1B; H314: >= 50 - < 70 Skin Irrit. 2; H315: >= 35 - < 50 Eye Dam. 1; H318: >= 8 - < 50 Eye Irrit. 2; H319: >= 5 - < 8 STOT SE 3; H335: >= 35 - 100		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately.  
 Adhere to personal protective measures when giving first aid.  
 Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

#### After inhalation

Supply fresh air, if required oxygen, consult a physician.



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If patient is not breathing, apply artificial respiration.  
Remove the casualty into fresh air and keep him immobile.  
In case of the person being unconscious put him/her in a stable side position.

### After contact with skin

Wash off immediately with soap and plenty of water.  
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.  
Seek medical treatment by eye specialist.

### After ingestion

Summon a doctor immediately.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Induce vomiting only upon the advice of a physician.

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

Harmful if swallowed or if inhaled.  
Causes severe skin burns and eye damage.  
Suspected of damaging the unborn child.

### 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 (CO<sub>2</sub>), water-spray.

#### Unsuitable extinguishing media

Full water jet

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

Fire may produce:  
carbon monoxide and carbon dioxide  
Hydrocarbons

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

### Additional information

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 measures

Ensure adequate ventilation.  
Keep away sources of ignition.

#### For non-emergency personnel

Do not breathe vapours.  
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.

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**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**

Shovel into suitable container for disposal.

Soak up with inert absorbent material (e.g. vermiculite, clean sand).

Dilute larger quantities of desensitization agent (e.g. fuel oil) to < 10% before disposal.

Do not keep container sealed.

**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 breathe vapours.

Wash hands before breaks and at the end of workday.

Keep away from acids, bases, heavy metal salts and reducing agents.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Keep away from open flames, hot surfaces and sources of ignition.

Use explosion-proof equipment / fittings and non-sparking tools.

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

Keep only in original container.

Keep container tightly closed in a dry, cool and well-ventilated place.

Protect against direct sun radiation.

Recommended storage temperature: -10°C - 30°C

**Hints on joint storage**

Incompatible with:

Reducing agents., Heavy metal salts, Acids and bases.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

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

Hardener

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

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### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
123-42-2	4-Hydroxy-4-methyl-pentan-2-one	50	241		TWA (8 h)	WEL
		75	362		STEL (15 min)	WEL
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
7722-84-1	Hydrogen peroxide	1	1.4		TWA (8 h)	WEL
		2	2.8		STEL (15 min)	WEL
1338-23-4	Methyl ethyl ketone peroxides (MEKP)	0.2	1.5		STEL (15 min)	WEL

### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

## 8.2. Exposure controls

### Appropriate engineering controls

- Pay attention to anti-explosion protection rules.
- Ensure adequate ventilation, especially in confined areas.

### Protective and hygiene measures

- Do not inhale vapours.
- Avoid contact with eyes and skin.
- Wash hands before breaks and immediately after handling the product.
- When using do not eat, drink or smoke.
- Remove and wash contaminated clothing before re-use.

### Eye/face protection

- Tightly fitting goggles (EN 166).
- Eye wash bottle with pure water (EN 15154).

### Hand protection

- Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.
- 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.
- Pls. find examples in the protective gloves database under: <http://bestglove.com/site/chemrest/>

### Skin protection

- Long sleeved clothing (DIN EN ISO 6530)
- 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:	Colourless
Odour:	Characteristic

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**Test method**

pH-Value:	< 5
<b>Changes in the physical state</b>	
Melting point:	- 20 °C
Boiling point or initial boiling point and boiling range:	Decomposition
Sublimation point:	Decomposition
Softening point:	n.d.
Pour Point:	< - 10 °C
Flash point:	78,5 °C CC

**Flammability**

Solid/liquid:	n.a.
Gas:	n.a.

**Explosive properties**

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits:	n.a.
Upper explosion limits:	n.a.
Auto-ignition temperature:	n.a.

**Self-ignition temperature**

Solid:	n.a.
Gas:	n.a.

Decomposition temperature: > 60 °C

**Oxidizing properties**

Organic peroxide type D, liquid

Vapour pressure: (at 20 °C)	n.d.
Density (at 20 °C):	1,02 - 1,03 g/cm <sup>3</sup>
Bulk density:	n.a.
Water solubility: (at 20 °C)	< 15 g/L

**Solubility in other solvents**

n.d.

Partition coefficient n-octanol/water:	n.d.
Viscosity / dynamic:	n.d.
Viscosity / kinematic: (at 20 °C)	18 - 20 mm <sup>2</sup> /s
Flow time:	n.d.
Relative vapour density:	n.d.
Evaporation rate:	n.d.

**9.2. Other information**

Refractive index: 1,434 (20°C)  
SADT > + 60°C  
Active oxygen: 9,0% - 9,3%

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

No decomposition if stored normally.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reacts with:

Soil, rust, chemicals, strong acids and bases and accelerators (heavy metal salts, amines).

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

Self-Accelerating decomposition temperature (SADT) from 60°C (SADT).

**10.5. Incompatible materials**

Soil, rust, chemicals, strong acids and bases and accelerators (heavy metal salts, amines).

**10.6. Hazardous decomposition products**

Fire may produce:

Carbon monoxide and carbon dioxide

Hydrocarbons

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful if swallowed.

Harmful if inhaled.

No toxicological data available.

**ATEmix calculated**

ATE (oral) 1303,1 mg/kg; ATE (inhalation aerosol) 3,968 mg/l

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

Causes serious eye damage.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of damaging the unborn child. (1-isopropyl-2,2-dimethyltrimethylene diisobutyrate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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.

**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

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



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Ecological data are not available.

### **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**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

### **12.6. Endocrine disrupting properties**

No data available

### **12.7. Other adverse effects**

Low hazard to waters.

### **Further information**

Do not release undiluted into wastewater or drainage ditch.

Do not release undiluted or in higher quantities into the groundwater, sewerage or waters.

## SECTION 13: Disposal considerations

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

#### **List of Wastes Code - residues/unused products**

080409 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 adhesives and sealants (including waterproofing products); waste adhesives and sealants 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.

## SECTION 14: Transport information

### **Land transport (ADR/RID)**

#### **14.1. UN number:**

UN 3105

#### **14.2. UN proper shipping name:**

ORGANIC PEROXIDE TYPE D, LIQUID (Butanone peroxide)

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

5.2

#### **14.4. Packing group:**

-

Hazard label:

5.2



Classification code:

P1

Special Provisions:

122 274

Limited quantity:

125 mL / 30 kg

Excepted quantity:

E0

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Transport category: 2  
Tunnel restriction code: D

### Inland waterways transport (ADN)

**14.1. UN number:** UN 3105  
**14.2. UN proper shipping name:** ORGANIC PEROXIDE TYPE D, LIQUID (Butanone peroxide)  
**14.3. Transport hazard class(es):** 5.2  
**14.4. Packing group:** -  
Hazard label: 5.2



Classification code: P1  
Special Provisions: 122 274  
Limited quantity: 125 mL / 30 kg  
Excepted quantity: E0

### Marine transport (IMDG)

**14.1. UN number:** UN 3105  
**14.2. UN proper shipping name:** ORGANIC PEROXIDE TYPE D, LIQUID (Methyl ethyl ketone peroxide)  
**14.3. Transport hazard class(es):** 5.2  
**14.4. Packing group:** -  
Hazard label: 5.2



Marine pollutant: No  
Special Provisions: 122, 274  
Limited quantity: 125 mL / 30 kg  
Excepted quantity: E0  
EmS: F-J, S-R

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 3105  
**14.2. UN proper shipping name:** ORGANIC PEROXIDE TYPE D, LIQUID (Methyl ethyl ketone peroxide)  
**14.3. Transport hazard class(es):** 5.2  
**14.4. Packing group:** -  
Hazard label: 5.2



Special Provisions: A20 A150 A802  
Limited quantity Passenger: Forbidden  
Passenger LQ: Forbidden  
Excepted quantity: E0  
IATA-packing instructions - Passenger: 570  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 570  
IATA-max. quantity - Cargo: 10 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

**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

2004/42/EC (VOC):

&lt; 20 %

Information according to 2012/18/EU (SEVESO III):

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

**Additional information**

This product is regulated by Annex II of Regulation (EU) 2019/1148 on the marketing and use of explosives precursors. All suspicious transactions and significant disappearances and thefts have to be reported to the responsible national contact point. Sales personnel at all trading levels has to be instructed.

**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):

1 - slightly hazardous to water

**Additional information**

Consider Chemical prohibition regulation.

**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

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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

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Self-react. D; H242	On basis of test data
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Repr. 2; H361d	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.  
H242 Heating may cause a fire.  
H271 May cause fire or explosion; strong oxidiser.  
H302 Harmful if swallowed.  
H302+H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.  
H412 Harmful to aquatic life with long lasting effects.  
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.)*