



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 13.10.2017

Version number 5

Revision: 28.04.2016

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

- **1.1 Product identifier**

- **Trade name: Wethan 280 Flashing**

- **Article number:** 190-xxx-006

- **1.2 Relevant identified uses of the substance or mixture and uses advised against** See Section 16

- **Application of the substance / the mixture** Sealing

- **1.3 Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

WestWood Liquid Technologies Limited  
 Unit 12 Albany Park  
 Cabot Lane  
 Poole  
 BH17 7BX  
 United Kingdom  
 Fon: +44 800 808 5480  
 Internet: www.westwood-uk.com

- **Further information obtainable from:**

Product safety department  
 Mr. Wayne Chissell  
 Fon: +44 7725 940 678  
 Email: wayne.chissell@westwood-uk.com

- **Emergency telephone number:**

24h - emergency number  
 Fon: +49 700 24 112 112 (W)

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3    H226 Flammable liquid and vapour.



GHS08 health hazard

Resp. Sens. 1    H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT RE 2    H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1    H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2    H315 Causes skin irritation.

Eye Irrit. 2    H319 Causes serious eye irritation.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

GHS02 GHS08

· **Signal word** Danger· **Hazard-determining components of labelling:**m-tolylidene diisocyanate  
xylene· **Hazard statements**H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H304 May be fatal if swallowed and enters airways.· **Precautionary statements**P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves/ eye protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.· **Additional information:**EUH204 Contains isocyanates. May produce an allergic reaction.  
EUH208 Contains m-tolylidene diisocyanate. May produce an allergic reaction.· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).  
· **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%
CAS: 26471-62-5 EINECS: 247-722-4	m-tolylidene diisocyanate Acute Tox. 2, H330; Resp. Sens. 1, H334; Carc. 2, H351; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	≥0.1-≤1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.



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#### SECTION 4: First aid measures

##### · 4.1 Description of first aid measures

###### · **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Involve doctor immediately.

###### · **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons into fresh air and keep quiet.

Seek medical treatment.

###### · **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

###### · **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

###### · **After swallowing:**

Rinse out mouth and then drink plenty of water.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Do not induce vomiting; call for medical help immediately.

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

Irritant to skin, eyes and respiratory system.

##### · 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 agents:** CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

CO<sub>2</sub>

##### · 5.3 Advice for firefighters

###### · **Protective equipment:**

Wear fully protective suit.

Do not inhale explosion gases or combustion gases.

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

###### · **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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### SECTION 6: Accidental release measures

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

Ensure adequate ventilation



Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

#### · 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

#### · 6.3 Methods and material for containment and cleaning up:

Do not flush with water or aqueous cleansing agents

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Not giving remnants back into the storage vessels.

Providing good ventilating/suction at work.

Prevent formation of aerosols.

#### · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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

##### · Storage:

##### · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Provide ventilation for receptacles.

Store in a cool location.

##### · Information about storage in one common storage facility: Store away from foodstuffs.

##### · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Storage in a collecting room is required.

Store under lock and key and with access restricted to technical experts or their assistants only.

Keep container tightly sealed.

##### · 7.3 Specific end use(s) Building coating or sealing.

### SECTION 8: Exposure controls/personal protection

#### · Additional information about design of technical facilities: No further data; see item 7.

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**· 8.1 Control parameters****· Ingredients with limit values that require monitoring at the workplace:****1330-20-7 xylene (10-25%)**

WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
MAK (Switzerland)	Short-term value: 870 mg/m <sup>3</sup> , 200 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm H B;

**26471-62-5 m-tolylidene diisocyanate (≥0.1-≤1%)**

WEL (Great Britain)	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
MAK (Switzerland)	Short-term value: 0.02 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> SB;als Gesamt-NCO gemessen

**· Ingredients with biological limit values:****1330-20-7 xylene (10-25%)**

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
BAT (Switzerland)	1.5 g/g Kreatinin Medium: U Sampling time: c,b Parameter: Methyl-Hippursäure
	1.5 mg/l Medium: B Sampling time: b Parameter: Xylol

**· Additional information:** The lists valid during the making were used as basis.**· 8.2 Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.
- Keep away from foodstuffs, beverages and feed.
- Do not inhale gases / fumes / aerosols.

**· Respiratory protection:**

Ensure good ventilation.



In case of brief exposure or low pollution use respiratory filter device; In case of intensive or longer exposure use self-contained breathing apparatus.

In interiors and at transgression of the limiting values breath filtration device: Filter type A1 using an air recycling independent breathing apparatus at high concentrations A2 at an intensive or longer outline.

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- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Check protective gloves prior to each use for their proper condition.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Protective gloves according to EN 374

As the product is a preparation of several substances, the resistance of glove materials can not be calculated in advance and has therefore to be checked prior to the application.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Protective gloves according EN 374.

Suitable material: nitrile.

- **Penetration time of glove material**

Our Recommendation is mainly on a one-time use as a short-term protection Liquid splashes. For other applications, you should contact a glove manufacturer.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Not suitable are gloves made of the following materials:** Leather gloves

- **Eye protection:**



EN-Standard: EN 166



Tightly sealed goggles

- **Body protection:**



Protective work clothing



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### SECTION 9: Physical and chemical properties

<ul style="list-style-type: none"> <li>· <b>9.1 Information on basic physical and chemical properties</b></li> <li>· <b>General Information</b></li> <li>· <b>Appearance:</b> <ul style="list-style-type: none"> <li>Form: Fluid</li> <li>Colour: Black</li> </ul> </li> <li>· <b>Odour:</b> Ester-like</li> <li>· <b>Odour threshold:</b> Not determined.</li> </ul>	
· <b>pH-value:</b>	Not determinable.
· <b>Change in condition</b> <ul style="list-style-type: none"> <li>Melting point/freezing point: Undetermined.</li> <li>Initial boiling point and boiling range: 137 °C (Xylol)</li> </ul>	
· <b>Flash point:</b>	25 °C (Xylol)
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Ignition temperature:</b>	465 °C (Xylol)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Not determined.
· <b>Explosion limits:</b> <ul style="list-style-type: none"> <li>Lower: 1,1 Vol % (Xylol)</li> <li>Upper: 7,0 Vol % (Xylol)</li> </ul>	
· <b>Vapour pressure:</b>	Not determined.
<ul style="list-style-type: none"> <li>· <b>Density at 20 °C:</b> 1.35 g/cm<sup>3</sup> (EN ISO 2811-1)</li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> <li>· <b>Evaporation rate</b> Not determined.</li> </ul>	
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> <ul style="list-style-type: none"> <li>Dynamic: Not determined.</li> <li>Kinematic at 20 °C: 90 s (ISO 6 mm)</li> </ul>	
· <b>Solvent content:</b> <ul style="list-style-type: none"> <li>Organic solvents: 17.9 %</li> <li>VOC (EC) 17.90 %</li> </ul>	
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** see Section 10.2
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Stable at environment temperature.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.

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- **10.4 Conditions to avoid** Avoid heat, flames and sources of ignition.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)
- **Additional information:**  
Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan to the workplace may be present.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects** There were no toxicological findings to the mixture.
- **Acute toxicity** Based on available data, the classification criteria are not met.

### · LD/LC50 values relevant for classification:

#### ATE (Acute Toxicity Estimates)

Dermal	LD50	>9,497 mg/kg (rabbit)
Inhalative	LC50/4h	>14.4 mg/l (rat)

#### 1330-20-7 xylene

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>1,700 mg/kg (rabbit)
	LC50	>2,000 mg/kg (hare)
Inhalative	LC50/4h	5 mg/l (rat)

#### 13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LC50	>10,000 mg/kg (hare)
Inhalative	LC50/4h	>6.82 mg/l (rat)

#### 26471-62-5 m-tolylidene diisocyanate

Oral	LD50	4,130 mg/kg (rat) American Industrial Hygiene Association Journal. Vol. 43, Pg. 89, 1982.
Dermal	LD50	>12,000 mg/kg (rabbit) Union Carbide Data Sheet. Vol. 1/11/1967
Inhalative	LC50/4h	>9,400 mg/kg (hare) 0.47 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Irritability  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes severe eye irritation.  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- **Subacute to chronic toxicity:** not tested
- **Repeated dose toxicity** no data available
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** not tested
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.

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- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

##### 1330-20-7 xylene

LC/EC/IC50	1 mg/l (aquatic organisms)
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##### 26471-62-5 m-tolylidene diisocyanate

EC50/48h	12.5 mg/l (daphnia magna)
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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).
- **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

### · 13.1 Waste treatment methods

Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, waste must be in compliance with local regulations to be removed.

#### · Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · Waste disposal key:

Uncured product residues:

080111\* contain waste paint and varnish containing organic solvents or other dangerous substances

080199 waste a. N. G.

080409\* contain waste adhesives and sealants containing organic solvents or other dangerous substances

080501\* isocyanates

080499 waste a. N. G.

200127\* paint, inks, adhesives and resins containing dangerous substances

Cured product residues:

080112 waste paint and varnish other than those mentioned in 080111

080410 waste adhesives and sealants other than those mentioned in 080409

Not dried container:

150110\* packaging containing residues of hazardous substances or contaminated by dangerous

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substances

Dried Packaging:

150102 plastic packaging

150104 metallic packaging

Absorbents / wipes:


150202\* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

· **Uncleaned packaging:**· **Recommendation:**

This material and its container must be disposed of as hazardous waste.

Disposal must be made according to official regulations.

### SECTION 14: Transport information

· <b>14.1 UN-Number</b> · <b>ADR, ADN, IMDG</b> · <b>IATA</b>	Void UN1866
· <b>14.2 UN proper shipping name</b> · <b>ADR, ADN, IMDG</b> · <b>IATA</b>	Void RESIN SOLUTION
· <b>14.3 Transport hazard class(es)</b> · <b>ADR, ADN, IMDG</b> · <b>Class</b>	Void
· <b>IATA</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids. 3
· <b>14.4 Packing group</b> · <b>ADR, IMDG</b> · <b>IATA</b>	Void III
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Remarks:</b>	Classification according to viscosity clause (2.2.3.1.5) > 450 l: 3 F1, III

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<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Remarks:</b></li> </ul>	Classification according to viscosity clause (2.3.2.5) > 30 l: 3, III
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions under the Maternity Protection Directive (94/33/EC).  
Employment restrictions for maternity Directive (92/85/EEC) for expectant and nursing mothers.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### \* SECTION 16: Other information

These figures relate to the product as delivered.

Sector of Use

Relevant identified uses of the mixture

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

SU21 Consumer uses: Private households / general public / consumers

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

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.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

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H412 Harmful to aquatic life with long lasting effects.

**· Training hints**

Teaching about hazards and precautions to hand the operating instructions (Technical Rule 555). Instruction must take place before the start of employment and at least annually thereafter.

**· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**· Sources**

[www.gestis.de](http://www.gestis.de)

[www.echa.eu](http://www.echa.eu)

[logkow.cisti.nrc.ca](http://logkow.cisti.nrc.ca)

**· \* Data compared to the previous version altered.**