

### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

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

### 1.1 Product identifier

Trade name: LUCITE® 2K-PUR Xtrem Härter

Safety data sheet number: 07-071905782001

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

No further relevant information available.

Application of the substance / the mixture Hardening agent/ Curing agent

### Uses advised against

This product is not suitable for uses other than those specified in the "Use of the substance/mixture". If your particular manner of use is not listed, please contact the creator of this safety data sheet.

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

#### Manufacturer/Supplier:

Dörken Coatings GmbH & Co. KG  
 formerly: CD-Color GmbH & Co. KG  
 Wetterstr. 58  
 58313 Herdecke  
 Germany  
 www.doerkencoatings.de

Phone: +49 2330 63 243

Fax: +49 2330 63 100 243

Further information obtainable from: [msds.coatings@doerken.de](mailto:msds.coatings@doerken.de)

### 1.4 Emergency telephone number:

Australia: 61-290372994

United Kingdom: 44-870-8200418 and 44-2038073798

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1      H318 Causes serious eye damage.



GHS07

Acute Tox. 4      H332 Harmful if inhaled.  
 Skin Irrit. 2      H315 Causes skin irritation.  
 Skin Sens. 1      H317 May cause an allergic skin reaction.  
 STOT SE 3      H335 May cause respiratory irritation.

Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

## Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 03-01

Revision: 14.08.2020

**Trade name: LUCITE® 2K-PUR Xtrem Härter**

(Contd. of page 1)

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

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

#### Hazard pictograms



GHS05 GHS07

#### Signal word Danger

#### Hazard-determining components of labelling:

Hexamethylene-1,6-diisocyanate homopolymer

Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, phosphate  
cyclohexyldimethylaminePropane, oxybis[methoxy-  
hexamethylene-di-isocyanate

#### Hazard statements

H332 Harmful if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P260 Do not breathe mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

### 2.3 Other hazards

Contains isocyanates: Avoid use with preparations of this kind by allergy, asthma and chronic illness of the respiration system.

#### Results of PBT and vPvB assessment

PBT: Not applicable.

(Contd. on page 3)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

Trade name: LUCITE® 2K-PUR Xtrem Härter

vPvB: Not applicable.

(Contd. of page 2)

**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**
**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 160994-68-3	Hydrophilic aliphatic polyisocyanate Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	50-75%
CAS: 111109-77-4 EC number: 601-045-4 Reg.nr.: 01-0000015420-83-xxxx	Propane, oxybis[methoxy- Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%
CAS: 822-06-0 EINECS: 212-485-8 Reg.nr.: 01-2119457571-37-xxxx	hexamethylene-di-isocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	≥0.1-<0.25%

**Additional information:**

All hydrocarbons used comply with note P (less than 0.1% benzene) of the CLP regulation.  
For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**
**General information:**

In all cases of doubt, or when symptoms persist, seek medical advice.

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

Soiled, soaked clothes immediately take off.

Never give anything by mouth to an unconscious person.

**After inhalation:**

Supply fresh air; consult doctor in case of complaints.

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

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:**

Remove contact lenses. Keep eye lids open and rinse plentifully for at least 10 minutes with clean running water. Subsequently consult an ophthalmologist.

Subsequently seek the immediate attention of an ophthalmologist.

(Contd. on page 4)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

**Trade name: LUCITE® 2K-PUR Xtrem Härter**

(Contd. of page 3)

**After swallowing:**

Rinse mouth thoroughly with water.

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

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

Allergic reactions

Inhalation may cause an irritating effect to mucous membranes.

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

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

Extinguishing powder, foam, carbon dioxide.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Fire will produce dangerous decomposition products like dense, black smoke, carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO) and nitrogen oxides (NO<sub>x</sub>). Inhalation may cause serious health damage.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information**

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

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources and ensure a well-ventilated room. Do not inhale fumes.

Avoid contact with skin and eyes.

**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

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

**6.3 Methods and material for containment and cleaning up:**

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

Dispose of the material collected according to regulations.

(Contd. on page 5)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

**Trade name: LUCITE® 2K-PUR Xtrem Härter**

(Contd. of page 4)

Use neutralising agent.

**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**

Avoid the formation of ignitable and explosion- hazardous solution vapours.

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Material can become charged electrostatically. Anti-static clothing including shoes are recommended.

Avoid contact with skin and eyes as well as inhalation of vapours.

Avoid the handling of incompatible substances and mixtures. Incompatible substances: see section 10.5

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Solvent fumes are heavier than air and spread over the ground. Fumes can form an explosive mixture with air.

**7.2 Conditions for safe storage, including any incompatibilities**
**Storage:**
**Requirements to be met by storerooms and receptacles:**

Make sure spills can be contained, e.g. in sump pallets.

Protect from frost, heat and direct sunlight. Keep tightly closed, cool and dry.

**Information about storage in one common storage facility:**

Note the rules for common storage in accordance with TRGS 510 - "Storage of hazardous substances in transportable containers".

Store away from foodstuffs.

**Further information about storage conditions:** None.

**Storage class:** 10

**7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**
**Additional information about design of technical facilities:**

Ensure a good ventilation. This can be achieved by local exhaustion or general exhaust air.

**8.1 Control parameters**
**Ingredients with limit values that require monitoring at the workplace:**
**822-06-0 hexamethylene-di-isocyanate**

AGW (Germany)	Long-term value: 0.035 mg/m <sup>3</sup> , 0.005 ppm 1;=2(I);DFG, 11, 12, Sa
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(Contd. on page 6)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

**Trade name: LUCITE® 2K-PUR Xtrem Härter**

(Contd. of page 5)

**Regulatory information AGW (Germany): TRGS 900**
**Ingredients with biological limit values:**
**822-06-0 hexamethylene-di-isocyanate**

BGW (Germany)	15 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Hexamethyldiamin (nach Hydrolyse)
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**Regulatory information BGW (Germany): TRGS 903**
**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls** Provide good ventilation and/or an exhaust system in the work area.

**Personal protective equipment:**
**General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

In case of suffering from allergy, asthma and chronic illness of the respiratory system avoid use of this product.

**Respiratory protection:**

Use always breathing protection with splashing medium.

Use combination filter type A(-P2) according to EN 141.

**Protection of hands:** It is recommended to use long gloves to minimize contact by splashing.

**Material of gloves**

Nitrile rubber

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.

**Penetration time of glove material**

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

**Eye protection:**

Tightly sealed safety goggles are to be worn during all work, in accordance with EN 166.

Have eye wash bottle or eye rinse ready at work place.

Professional Cooperative Rules - BGR 192 Use of eye and face protection

**Body protection:** Solvent resistant protective clothing

DE/EN

(Contd. on page 7)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

Trade name: LUCITE® 2K-PUR Xtrem Härter

(Contd. of page 6)

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

##### Appearance:

Form:	Fluid
Colour:	Colourless

**Odour:** Weak after glycol ethers

**Odour threshold:** For mixtures not applicable.

**pH-value:** Not applicable to preparations which contain solvents.

##### Change in condition

**Melting point/Freezing point:** Not security-related.

**Initial boiling point and boiling range:** Undetermined.

**Flash point:** ~65 °C

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:** 165 °C  
The specified ignition temperature refers to the solvent manufacturer specifications.

**Decomposition temperature:** For mixtures not applicable.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### Explosion limits:

<b>Lower:</b>	0.8 Vol %
<b>Upper:</b>	5.6 Vol %
The specified explosion limits refer to the solvent manufacturer specifications.	

**Oxidising properties** The product is flammable, although not oxidising.

**Vapour pressure at 20 °C:** 0.7 hPa  
The specified vapour pressure refers to the solvent manufacturer specifications.

**Relative density at 20 °C** ~1.09

**Vapour density** Not applicable.

**Evaporation rate** For mixtures not applicable.

##### Solubility in / Miscibility with

<b>water:</b>	Miscible / waterdilutable.
<b>polar solvents:</b>	Partly miscible.
<b>non-polar solvents:</b>	Not miscible or difficult to mix.

(Contd. on page 8)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

**Trade name: LUCITE® 2K-PUR Xtrem Härter**

(Contd. of page 7)

**Partition coefficient: n-octanol/water:** For mixtures not applicable.

**Viscosity:** < 60 s (20°C / ISO 2431 / 6 mm)  
> 20,5 mm<sup>2</sup>/s (40°C)

**9.2 Other information** No further relevant information available.

**SECTION 10: Stability and reactivity**
**10.1 Reactivity** Vapours can form explosive mixtures with air.

**10.2 Chemical stability** Sensitive to moisture.

**10.3 Possibility of hazardous reactions**

 Exotherm reactions with water and aqueous solutions, alcohols, amines, alcalis under secession of carbon dioxide (CO<sub>2</sub>). Upon contact with moisture forming of CO<sub>2</sub> resuting in increased pressure in closed containers. Danger of bursting!

**10.4 Conditions to avoid**

Protect from moisture contamination.

Keep away from heat sources, sparks and open flames.

**10.5 Incompatible materials:** strong oxidizing agents

**10.6 Hazardous decomposition products:**

In case of fire arise: smoke and carbon oxides. Under certain fire conditions tracks of other toxic products can not be excluded.

**SECTION 11: Toxicological information**
**11.1 Information on toxicological effects**
**Acute toxicity**

The product is not tested as one of the above but rather is classified according to the conventional method (calculation procedure set out in the EU Regulation (EC) No 1272/2008) and according to the toxicological risks. See chapters 2 and 3 for detail.

Harmful if inhaled.

**LD/LC50 values relevant for classification:**

The quoted data are literature values and/or manufacturer/supplier data.

**Hexamethylene-1,6-diisocyanate homopolymer**

Inhalative	LC <sub>50</sub> / 4 h	11 mg/l (ATE)
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**98-94-2 cyclohexyldimethylamine**

Oral	LD <sub>50</sub>	272 mg/kg (rat)
Dermal	LD <sub>50</sub>	370 mg/kg (rat) (OECD 402)
Inhalative	LC <sub>50</sub> / 4 h	4.45 mg/l (rat)

**822-06-0 hexamethylene-di-isocyanate**

Oral	LD <sub>50</sub>	746 mg/kg (rat) (OECD 401)
Inhalative	LC <sub>50</sub> / 4 h	0.124 mg/l (rat) (OECD 403)

(Contd. on page 9)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

**Trade name: LUCITE® 2K-PUR Xtrem Härter**

(Contd. of page 8)

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

The product is not classified as carcinogenic, mutagenic or toxic to reproduction (CMR properties).

**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**

May cause respiratory irritation.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Due to the viscosity (see section 9), classification as an aspiration hazard is omitted.

**General notes:**

Inhalation of solvent concentrations in excess of the OEL or MAK limit values can lead to health damage such as irritation of the mucous membranes and respiratory tract, damage to the kidneys and liver, and impairment of the central nervous system. Symptoms: headaches, dizziness, fatigue, muscle weakness, narcotic effect and, in exceptional cases, loss of consciousness. Prolonged or repeated contact with the product impairs the skin's natural lipid replenishment and causes the skin to dry out. The product can enter the body through the skin. Splashes of solvent may cause irritation to the eye and reversible damage.

### SECTION 12: Ecological information

**12.1 Toxicity**
**Aquatic toxicity:**

Harmful to aquatic life with long lasting effects.

**9046-01-9 Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, phosphate**

LC <sub>50</sub> / 96 h	10 mg/l (Danio rerio (zebrafish))
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**98-94-2 cyclohexyldimethylamine**

EC <sub>50</sub> / 48 h	75 mg/l (Daphnia magna (big water flea))
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EC <sub>50</sub> / 72 h	>2 mg/l (algae) (DIN 38412)
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LC <sub>50</sub> / 96 h (static)	22-<46 mg/l (fish) (DIN 38412)
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**12.2 Persistence and degradability**
**9046-01-9 Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, phosphate**

OECD 301B CO <sub>2</sub> Evolution Test	45 % (28d)
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(Contd. on page 10)

DE/EN

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

**Trade name: LUCITE® 2K-PUR Xtrem Härter**

(Contd. of page 9)

**12.3 Bioaccumulative potential**
**111109-77-4 Propane, oxybis[methoxy-**

Partition Coefficient log Pow 0.42 (n-octanol/water)

**12.4 Mobility in soil** No further relevant information available.

**Ecotoxic effects:**
**Behaviour in sewage processing plants:**
**9046-01-9 Poly(oxy-1,2-ethanediyl), alpha-tridecyl-omega-hydroxy-, phosphate**

 OECD 302B Zahn-Wellens Test 83 % (28d)  
 Inherently biodegradable

**General notes:** Do not allow product to reach ground water, water course or sewage system.

**12.5 Results of PBT and vPvB assessment**

This product does not contain relevant substances that have been assessed as persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB).

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**
**13.1 Waste treatment methods**
**Recommendation**

Special waste. Do not empty residuals into drain or WC; send to collection for problem waste. Do not dispose of with household waste.

**European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP 4	Irritant - skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 13	Sensitising
HP 14	Ecotoxic

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

Disposal must be made according to official regulations.

Not contaminated packages may be recycled.

Do not dispose of with household waste. Do not empty into drains.

Hand over receptacles/packages with remainders/leftovers to hazardous waste disposers or collection site for hazardous waste.

DE/EN

(Contd. on page 11)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

Trade name: LUCITE® 2K-PUR Xtrem Härter

(Contd. of page 10)

**SECTION 14: Transport information**
**UN-Number**

ADR, ADN, IMDG, IATA

Void

**14.2 UN proper shipping name**

ADR, ADN, IMDG, IATA

Void

**14.3 Transport hazard class(es)**

ADR, ADN

Class

Void

IMDG, IATA

Class

Void

Label

-

**Packing group**

ADR, IMDG, IATA

Void

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to Annex II of**

Marpol and the IBC Code

Not applicable.

**UN "Model Regulation":**

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.

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**National regulations:****Information about limitation of use:**

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

**Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.**Labelling according to Regulation (EC) No 2004/42** Not applicable.
**SECTION 16: Other information**

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.

The given conditions of work of the user extract themselves from our knowledge and control. The product/the preparation may be used without written permission for no other use, than the mentioned intended purpose.

The user is responsible for the observance of all necessary legal instructions.

(Contd. on page 12)

### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.08.2020

Version number 03-01

Revision: 14.08.2020

**Trade name: LUCITE® 2K-PUR Xtrem Härter**

(Contd. of page 11)

This Safety Data Sheet replaces all previous versions. With the newest version in each case, the preceding Safety Data Sheets are set out of strength.

For further information please consult the "Technical Data Sheet".  
Misuse may cause damage to health and environment.

#### Relevant phrases

H302 Harmful if swallowed.

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.

H412 Harmful to aquatic life with long lasting effects.

#### Classification according to Regulation (EC) No 1272/2008

Acute toxicity - inhalation  
Skin corrosion/irritation  
Serious eye damage/eye irritation  
Skin sensitisation  
Specific target organ toxicity (single exposure)  
Hazardous to the aquatic environment - long-term  
(chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

#### Abbreviations and acronyms:

Acute Tox. 1: Acute toxicity - inhalation – Category 1

Acute Tox. 4: Acute toxicity - inhalation – Category 4

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

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

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

#### Sources

- Regulation 1907/2006/EC (REACH-Regulation)

- Regulation 1272/2008/EC (CLP-Regulation)

\* **Data compared to the previous version altered.** Replaces version 03-00