

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.09.2018

Version number 5

Revision: 10.09.2018

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

### 1.1 Product identifier

Trade name: **Akepox 5000 Component A**

Article number: 10681, 10682, 11635

### 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

Epoxy resin adhesive

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

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg

Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

Further information obtainable from:

Laboratory

### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.  
+44 (171) 635 91 91  
National Poison Inform. Centre  
Medical Toxicology Unit  
Avalonley Road  
London SE14 5ER

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

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



GHS07 GHS09

Signal word

Warning

Hazard-determining components of labelling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)  
Cyclohexanedimethanol diglycidyl ether  
H315 Causes skin irritation.

Hazard statements

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- Precautionary statements**
- H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H411 Toxic to aquatic life with long lasting effects.
- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read label before use.  
 P261 Avoid breathing vapours.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face 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.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information:** Contains epoxy constituents. May produce an allergic reaction.
- 2.3 Other hazards**
- Results of PBT and vPvB assessment**
- PBT:** Not applicable.  
**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

- Description:** Mixture of substances listed below with nonhazardous additions.

##### Dangerous components:

CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8 Reg.nr.: 01-2119456619-26-0000	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	50-100%
CAS: 14228-73-0 EINECS: 238-098-4	Cyclohexanedimethanol diglycidyl ether ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	12.5-25%
CAS: 2530-83-8 EINECS: 219-784-2 Reg.nr.: 01-2119513212-58	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane ⚠ Eye Dam. 1, H318	1-5%

- Additional information:** 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:** Take affected persons out into the fresh air.  
 Position and transport stably in side position.  
 Immediately remove any clothing soiled by the product.
- After inhalation:** Supply fresh air and to be sure call for a doctor.  
 In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:** If skin irritation continues, consult a doctor.  
 Immediately wash with water and soap and rinse thoroughly.
- After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:** Rinse out mouth and then drink plenty of water.

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

Breathing difficulty  
Coughing  
Allergic reactions

· Information for doctor:

Bisphenol-A based resins: Inhalation, swallowing or dermal incorporation may cause health damage. Irritates respiratory tract, digestion system, eyes and skin: e.g., cough, dyspnea, lacrimation, burning. May cause health interferences such as dermal changes, renal, hepatic damage, and blood count changes. May provoke skin allergies. Sensitized users can react towards very low concentrations of Bisphenol-A-Epichlorohydrine and should avoid any further contact with this chemical.

The sensitizing effect of epoxide based resins is mainly caused by the concentration of epoxy resin polymers with a specific molecular weight  $\leq 300$ . The observed allergic dermal and respiratory appearances should be treated symptomatically in dependence of the severity. An epoxy resin based allergic disease belongs to a cell mediated (interaction of lymphocytes) type IV allergy.

Danger of impaired breathing.

· Hazards

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

If swallowed, gastric irrigation with added, activated carbon.

**SECTION 5: Firefighting measures**

· **5.1 Extinguishing media**

· Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **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)

Hydrogen chloride (HCl)

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

· **5.3 Advice for firefighters**

· Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

· Additional information

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

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures**

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

Ensure adequate ventilation

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

· **6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

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.

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

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

Dispose of the material collected according to regulations.

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

Ensure adequate ventilation.

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- **6.4 Reference to other sections** See Section 13 for disposal information.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Keep receptacles tightly sealed.  
Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.  
Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Store away from reducing agents.  
Store away from foodstuffs.
- **Further information about storage conditions:** Store receptacle in a well ventilated area.  
Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### · DNELs

**25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

Oral	DNEL (Kurzzeit-akut)	0.75 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	0.75 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	8.33 mg/kg bw/day (ARB)
		3.571 mg/kg bw/day (BEV)
	DNEL ( Langzeit-wiederholt)	8.33 mg/kg bw/day (ARB)
Inhalative		3.571 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	12.25 mg/m³ Air (ARB)
	DNEL (Langzeit-wiederholt)	12.25 mg/m³ Air (ARB)

### · PNECs

**25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

PNEC (wässrig)	10 mg/l (KA)
	0.0006 mg/l (MW)
	0.006 mg/l (SW)
	0.018 mg/l (WAS)

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PNEC (fest)	0.196 mg/kg Trockengew (BO)
	0.0996 mg/kg Trockengew (MWS)
	0.996 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· Personal protective equipment:

· General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.  
 Apply solvent resistant skin cream before starting work.  
 Clean skin thoroughly immediately after handling the product.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.

· Respiratory protection:

Short term filter device:  
 Filter A/P2

· Protection of hands:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
 Preventive skin protection by use of skin-protecting agents is recommended.  
 After use of gloves apply skin-cleaning agents and skin cosmetics.  
 Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:  
 STOKO EMULSION (<http://www.stoko.com>)  
 Skin protection recommendation for skin cleaning after product handling:  
 Kresto Classic (<http://debstoko.com>)  
 Skin protection agent recommendation for skin aftercare:  
 STOKO VITAN (<http://www.stoko.com>)  
 The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.  
 This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).



#### Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

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.

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- Penetration time of glove material Value for the permeation: Level  $\leq 6$ , 480 min  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR  
Butoject (KCL, Art\_No. 897, 898)  
Fluorocarbon rubber (Viton)  
Vitoject (KCL, Art\_No. 890)
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR  
Camatril (KCL, 730, 731, 732, 733)  
Chloroprene rubber, CR  
Camapren (KCL, Art\_No. 720, 722, 726)
- Not suitable are gloves made of the following materials: Leather gloves  
Strong material gloves
- Eye protection:  Tightly sealed goggles
- Body protection: Protective work clothing

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

## · General Information

· Appearance:

Form:

Fluid

Colour:

Colourless

· Odour:

Characteristic

· pH-value:

Not applicable

· Change in conditionMelting point/freezing point:

Undetermined.

Initial boiling point and boiling range: Undetermined.· Flash point:

Not applicable.

· Auto-ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product does not present an explosion hazard.

· Vapour pressure at 20 °C:

2 hPa

· Density at 20 °C:1.15 g/cm<sup>3</sup>· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Viscosity:Dynamic at 20 °C:

3,900 mPas

Kinematic:

Not determined.

· Solvent content:Organic solvents:

0.0 %

· **9.2 Other information**

No further relevant information available.

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**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** May produce violent reactions with bases and numerous organic substances including alcohols and amines.  
Reacts with acids.  
Exothermic polymerisation.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Irritant gases/vapours  
Carbon monoxide and carbon dioxide  
Hydrogen chloride (HCl)

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

• **LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

Inhalative LC50/4 h &gt;359 mg/l (rat)

**25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

Oral	LD50	20,000 mg/kg (mouse)
		19,800 mg/kg (rabbit)
		11,400 mg/kg (rat)
	NOEL	540 mg/kg (rat) (OECD 416)
Dermal	LD50	20,000 mg/kg (rabbit)

**14228-73-0 Cyclohexanedimethanol diglycidyl ether**

Oral LD50 &gt;2,000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.
- **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.

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**SECTION 12: Ecological information****• 12.1 Toxicity****• Aquatic toxicity:****25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)**

EC50/24h	1.1-3.6 mg/l (daphnia magna)
EC50/96h	3.6 mg/l (Leuciscus idus)
	220 mg/l (Scenedesmus subspicatus)
IC50	>100 mg/l (bacteria)
EC50/48h	2.7 mg/l (daphnia magna) (OECD 202)
NOEC	0.3 mg/kg (daphnia magna) (OECD 211)
EC50/72h	9.4 mg/l (selenastrum capricornutum)
LC50/96h	1.3 mg/l (piscis)
	1.5 mg/l (Oncorhynchus mykiss) (OECD 203)
	1.5-7.7 mg/l (rainbow trout)
LC50/72h	>11 mg/l (green alge)

**14228-73-0 Cyclohexanedimethanol diglycidyl ether**

LC0/96h	10 mg/l (piscis)
LC50/96h	13 mg/l (piscis)

**• 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.

**• Ecotoxicological effects:****• Remark:**

Toxic for fish

**• Additional ecological information:****• General notes:**

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

**• 12.5 Results of PBT and vPvB assessment****• 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**

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

**• European waste catalogue**

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 27*	paint, inks, adhesives and resins containing hazardous substances

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

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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· Recommended cleansing agents: Alcohol  
acetone

## SECTION 14: Transport information

### · 14.1 UN-Number

· ADR, IMDG, IATA

UN3082

### · 14.2 UN proper shipping name

· ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700))

· IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)), MARINE POLLUTANT

· IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700))

### · 14.3 Transport hazard class(es)

· ADR· Class

9 (M6) Miscellaneous dangerous substances and articles.

· Label

9

· IMDG, IATA· Class

9 Miscellaneous dangerous substances and articles.

· Label

9

### · 14.4 Packing group

· ADR, IMDG, IATA

III

### · 14.5 Environmental hazards:

· Marine pollutant:

Product contains environmentally hazardous substances:

Yes

· Special marking (ADR):

Symbol (fish and tree)

· Special marking (IATA):

Symbol (fish and tree)

Symbol (fish and tree)

### · 14.6 Special precautions for user

· Danger code (Kemler):

Warning: Miscellaneous dangerous substances and articles.

90

· EMS Number:

F-A,S-F

· Stowage Category

A

### · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

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• Transport/Additional information:

• ADR

• Limited quantities (LQ)

5L

• Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

• Transport category

3

• IMDG

• Limited quantities (LQ)

5L

• Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

• UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT = 700)), 9, III

#### 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

E2 Hazardous to the Aquatic Environment

• Qualifying quantity (tonnes) for the application of lower-tier requirements

200 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements

500 t

• REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

• National regulations:

• Information about limitation of use:

Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.

• Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

• VOC EU

0.0 g/l

• **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

#### 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.

• Relevant phrases

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

• Recommended restriction of use

refer to Technical Data Sheet (TDS)

• Department issuing SDS:

Laboratory

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· Contact:

Dieter Zimmermann  
Elke Hake  
Fon ++49 (0)911 64296-59  
@mail E.Hake@akemi.de

· 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)  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organisation  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)  
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)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
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  
Skin Sens. 1: Skin sensitisation – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· \* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

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