

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.09.2016

V - 3

Revision: 09.09.2016

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

- **1.1 Product identifier**
 - **Trade name:** YACHTCARE EPOXY BK (B-hardener)
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against** Not determined
 - **Application of the substance / the mixture**
Hardening agent/ Curing agent
Epoxy curing agent
 - **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Vosschemie GmbH
Esinger Steinweg 50
D-25436 Uetersen
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de
 - **Further information obtainable from:**
Abteilung Labor / +49 (0)4122 717 0
s.schaller@vosschemie.de
 - **1.4 Emergency telephone number:**
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland
Phone: +49 (0)551 19240
-

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

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GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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

· **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:**

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Benzyl alcohol

2,4,6-tris(dimethylaminomethyl)phenol

Salicylic acid

· **Hazard statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves / eye protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

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

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 100-51-6 EINECS: 202-859-9 Reg.nr.: 01-2119492630-38	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	25-50%
CAS: 2855-13-2 EINECS: 220-666-8 Reg.nr.: 01-2119514687-32	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	25-50%
CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Skin Sens. 1B, H317; Aquatic Chronic 3, H412	2.5-10%
CAS: 69-72-7 EINECS: 200-712-3 Reg.nr.: 01-2119486984-17	Salicylic acid ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	2.5-10%

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:

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

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

After inhalation:

Remove person to fresh air and keep comfortable for breathing.

Supply fresh air or oxygen; call for doctor.

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

After skin contact:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

After eye contact:

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

Call a doctor immediately.

After swallowing:

Rinse mouth.

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Ammonia
Formation of toxic gases is possible during heating or in case of fire.
Can form explosive gas-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
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**
Wear protective equipment. Keep unprotected persons away.
Avoid contact with the eyes and skin.
Ensure adequate ventilation
Do not inhale gases / fumes / aerosols.
Keep away from ignition sources.
- **6.2 Environmental precautions:**
Avoid release to the environment.
Do not allow to penetrate the ground/soil.
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:**
Collect with an inert, non-combustible, absorbent material (i.e. sand, diatomaceous earth, acid binder, universal binder).
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**
Keep receptacles tightly sealed.
Open and handle receptacle with care.
Ensure good ventilation/exhaustion at the workplace.

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Avoid contact with the eyes and skin.

Prevent formation of aerosols.

Do not inhale gases / fumes / 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.

Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and feed.

Do not store together with oxidising and acidic materials.

· Further information about storage conditions:

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

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

· Recommended storage temperature: +15 °C - +25 °C

· 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

100-51-6 Benzyl alcohol

Oral	Acute/short-term exposure - systemic effects	5 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	5.7 mg/kg bw/day (general population) 9.5 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	19.1 mg/m ³ (general population) 90 mg/m ³ (worker)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	Long-term exposure - systemic effects	0.526 mg/kg bw/day (general population)
Inhalative	Acute/short-term exposure - systemic effects	20.1 mg/m ³ (worker)
	Acute/short-term exposure - local effects	20.1 mg/m ³ (worker)

69-72-7 Salicylic acid

Oral	Acute/short-term exposure - systemic effects	4 mg/kg bw/day (general population)
	Long-term exposure - systemic effects	1 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	2 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	4 mg/m ³ (general population) 5 mg/m ³ (worker)
	Long-term exposure - local effects	0.2 mg/m ³ (general population)

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· PNECs	
100-51-6 Benzyl alcohol	
<i>PNEC aqua</i>	1 mg/l (freshwater) 0.1 mg/l (marine water) 2.3 mg/l (intermittent releases)
<i>PNEC sediment</i>	5.27 mg/kg (freshwater) 0.527 mg/kg (marine water)
<i>PNEC STP</i>	39 mg/l
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine	
<i>PNEC aqua</i>	0.06 mg/l (freshwater) 0.006 mg/l (marine water)
<i>PNEC sediment</i>	5.784 mg/kg (freshwater)
69-72-7 Salicylic acid	
<i>PNEC aqua</i>	0.2 mg/l (freshwater) 0.02 mg/l (marine water)
<i>PNEC sediment</i>	1.42 mg/kg (freshwater) 0.142 mg/kg (marine water)
<i>PNEC STP</i>	162 mg/l

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

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

Store protective clothing separately.

Contaminated work clothing should not be allowed out of the workplace.

Immediately remove all soiled and contaminated clothing

Wash contaminated clothing before reuse.

Wash hands before breaks and at the end of work.

Use skin protection cream for skin protection.

Avoid contact with the eyes and skin.

After contact with skin, wash immediately with plenty of soap and water.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

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.

Filter A/P2

· **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

Check the permeability prior to each renewed use of the glove.

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

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· **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. 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.

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.5 mm

· **Penetration time of glove material**

Value for the permeation: Level ≤ 6 (≤ 480 min.)

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

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

PVC gloves

· **As protection from splashes gloves made of the following materials are suitable: PVC gloves**

· **Not suitable are gloves made of the following materials:**

Strong material gloves

Leather gloves

· **Eye protection:**



Tightly sealed goggles

Face protection

· **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:	Yellowish
· Odour:	Amine-like

· **Change in condition**

· **Boiling point/Boiling range:** > 200 °C

· **Flash point:** > 100 °C

· **Ignition temperature:** 380 °C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· Lower:	1.2 Vol %
· Upper:	13.0 Vol %

· **Vapour pressure at 20 °C:** 0.1 hPa

· **Density at 20 °C:** 1.04 g/cm³ (ISO 2811-2)

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· Vapour density	Not determined
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined
· Viscosity:	
Dynamic at 25 °C:	700 mPas (ISO 3219)
Kinematic:	Not determined
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Exothermic polymerisation.
Reacts with acids, alkalis and oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Reacts with strong oxidising agents.
- **10.6 Hazardous decomposition products:**
In case of fire, the following can be released:
Poisonous gases/vapours
Corrosive gases/vapours

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.

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

100-51-6 Benzyl alcohol

Oral	LD50	1620 mg/kg (rat)
Dermal	LD 50	2000 mg/kg (rabbit)
Inhalative	LC50 /4h	> 4.178 mg/l (rat) (mist)
	LC50 /4h	> 4178 mg/m ³ (rat) (aerosol, OECD 403)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	LD50	1030 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
		1840 mg/kg (rabbit)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral	LD50	2169 mg/kg (rat) (OECD 401)
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69-72-7 Salicylic acid

Oral	LD50	891 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rat)

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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes serious eye damage.

· **Subacute to chronic toxicity:**

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral NOAEL 60 mg/kg (rat) (OECD 408, 90d, kidney)

· **Sensitisation**

May cause an allergic skin reaction.
Sensitisation possible through skin contact.

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

- **Carcinogenicity** No further relevant information available.
- **Reproductive toxicity/Fertility** No further relevant information available.

· **Reproductive toxicity/Teratogenicity**

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral NOAEL (teratogenicity) >250 mg/kg (rat) (OECD 414)

- **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.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

100-51-6 Benzyl alcohol

EC50	> 658 mg/l (bacteria) (16h)
EC50/72h	770 mg/l (algae) (OECD 201)
EC50/0.5h	71.42 mg/l (bacteria) (Photobacterium phosphoreum)
LC50/96h	460 mg/l (fish) (OECD 203)
NOEC (aqua chron.)	51 mg/l (daphnia magna) (OECD 211)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

EC10	1120 mg/l (pseudomonas putida) (18h)
EC50/48h	23 mg/l (daphnia magna) (OECD TG 202)
EC50/72h	50 mg/l (scenedesmus subspicatus) (EG 88/302)
LC50/96h	110 mg/l (leuciscus idus) (EG 84/449)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

EC50/72h	84 mg/l (scenedesmus subspicatus)
EC50/96h	750 mg/l (crustacean)
	718 mg/l (palaemonetes pugio)
LC50/96h	175 mg/l (Cyprinus carpio)

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69-72-7 Salicylic acid

EC50	180 mg/l (daphnia) (24h)
EC50/48h	870 mg/l (daphnia magna) (OECD 202)
EC50/72h	100 mg/l (Pseudokirchneriella subcapitata)
	> 100 mg/l (desmodesmus subspicatus)
LC50/96h	1380 mg/l (pimephales promelas)

12.2 Persistence and degradability**100-51-6 Benzyl alcohol**

BSB (BOD)	1550 mg/g (5d)
Biodegradation	95-9 % (OECD 301 A, 21d)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Biodegradation	8 % (440/2008/EG C.4-A, DOC-Die-Away-Test, 28d)
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12.3 Bioaccumulative potential**100-51-6 Benzyl alcohol**

log Pow	1.05
BCF	1.37

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

log Pow	0.99
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69-72-7 Salicylic acid

log Pow	2.21
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Behaviour in environmental systems:**12.4 Mobility in soil****2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Koc	928
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Ecotoxicological effects:

- **Remark:** Harmful to fish

Additional ecological information:**General notes:**

Harmful to aquatic organisms

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

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.

Waste disposal key:

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

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· **European waste catalogue**

08 02 99 | wastes not otherwise specified

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA** UN2735

· **14.2 UN proper shipping name**

· **ADR** 2735 AMINES, LIQUID, CORROSIVE, N.O.S.
(ISOPHORONEDIAMINE)
· **IMDG, IATA** AMINES, LIQUID, CORROSIVE, N.O.S.
(ISOPHORONEDIAMINE)

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class** 8 Corrosive substances.
· **Label** 8

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

· **Danger code (Kemler):** Warning: Corrosive substances.
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· **EMS Number:** F-A,S-B
· **Segregation groups** Alkalis
· **Stowage Category** A
· **Segregation Code** SG35 Stow "separated from" acids.

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

Not applicable.

· **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
· **Tunnel restriction code** E

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- **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

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:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **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**
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.
- **Department issuing SDS:** Abteilung Labor
- **Contact:** Frau S. Schaller
- **Abbreviations and acronyms:**
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
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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*Skin Corr. 1C: Skin corrosion/irritation – Category 1C**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**Skin Sens. 1B: Skin sensitisation – Category 1B**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3***· * Data compared to the previous version altered.**

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