

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.02.2015

Revision: 17.02.2015

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

· **1.1 Product identifier**

· Trade name: **Barrier Coat Activator**

· **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 hardening agent

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

· **Manufacturer/Supplier:**

Merlin Coatings Ltd

Unit 7 Kirkhall Workshops, Bilbao Street

· Bolton, BL1 4HH, United Kingdom

Tel.: +44-1204-940004, Email: info@merlin-coatings.com

· **Informing department:** see section 16

· **1.4 Emergency telephone number:**

· GB: Regional Medicines and Poisons Information Centre 844 892 0111

SECTION 2: Hazards identification

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

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

Repr. 2 H361f Suspected of damaging fertility.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

C; Corrosive

R34: Causes burns.

Xn; Harmful

R20/22-62: Harmful by inhalation and if swallowed. Possible risk of impaired fertility.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

· **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 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

3-aminomethyl-3,5,5-trimethylcyclohexylamine

bisphenol A

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m-phenylenebis(methylamine)
3-aminopropyldimethylamine

Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361f Suspected of damaging fertility.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Remove/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.

P405 Store locked up.

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.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: stabilized amine hardener for epoxy resins

Dangerous components:

CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-xxxx	Benzyl alcohol Xn R20/22 Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	25-50%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9 Reg.nr.: 01-2119514687-32-xxxx	3-aminomethyl-3,5,5-trimethylcyclohexylamine C R34; Xn R21/22; Xi R43 R52/53 Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2.5-10%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-xxxx	<i>m</i> -phenylenebis(methylamine) C R34; Xn R20/22; Xi R43 R52/53 Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	2.5-10%
CAS: 80-05-7 EINECS: 201-245-8 Index number: 604-030-00-0 Reg.nr.: 01-2119457856-23-xxxx	bisphenol A Xn R62; Xi R37-41; Xi R43 R52 Repr. Cat. 3 Repr. 2, H361f; Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335	2.5-10%
CAS: 109-55-7 EINECS: 203-680-9 Index number: 612-061-00-6 Reg.nr.: 01-2119486842-27-xxxx	3-aminopropyldimethylamine C R34; Xn R21/22-48; Xi R37; Xi R43 R10 Flam. Liq. 3, H226; Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; STOT SE 3, H335	2.5-10%

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CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	2.5-10%
EINECS: 202-013-9	C R34	
Index number: 603-069-00-0	R52/53	
Reg.nr.: 01-2119560597-27-xxxx	Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412	

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

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation**
Take affected persons into the open air and position comfortably
Seek medical treatment in case of complaints.
- **After skin contact**
Instantly 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 doctor.
- **After swallowing** Instantly call for doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Information for doctor** No particular measures are known - treat according to symptoms.
- **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**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.
- **Additional information**
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 clothing.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections** Clean the accident area carefully.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
The usual precautionary measures for handling chemicals must be observed.
Ensure good ventilation/exhaustion at the workplace.

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- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store only in the original container.
Provide floor trough without outlet.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** 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 systems:** No further data; see item 7.

8.1 Control parameters

- **Components 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

Dermal	DNEL - worker	9.5 mg/kg / bw/d (-) (langfristig)
Inhalative	DNEL - worker	90 mg/m ³ (-) (langfristig)

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

Inhalative	DNEL - worker	20.1 mg/m ³ (-)
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80-05-7 bisphenol A

Dermal	DNEL - worker	1.4 mg/kg / bw/d (-)
Inhalative	DNEL - worker	10 mg/m ³ (-)

109-55-7 3-aminopropyldimethylamine

Inhalative	DNEL - worker	9.8 mg/m ³ (-)
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90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Inhalative	DNEL - worker	0.31 mg/m ³ (-)
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· PNECs

100-51-6 Benzyl alcohol

PNEC (predicted no effect concentration)	1 mg/l (Frischwasser (freshwater))
	0.1 mg/l (Meerwasser (seawater))

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

PNEC (predicted no effect concentration)	0.06 mg/l (Frischwasser (freshwater))
	0.006 mg/l (Meerwasser (seawater))

1477-55-0 m-phenylenebis(methylamine)

PNEC (predicted no effect concentration)	0.094 mg/l (Frischwasser (freshwater))
	0.0094 mg/l (Meerwasser (seawater))

80-05-7 bisphenol A

PNEC (predicted no effect concentration)	0.018 mg/l (Frischwasser (freshwater))
	0.016 mg/l (Meerwasser (seawater))

109-55-7 3-aminopropyldimethylamine

PNEC (predicted no effect concentration)	0.0535 mg/l (Frischwasser (freshwater))
	0.00535 mg/l (Meerwasser (seawater))

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

PNEC (predicted no effect concentration)	0.84 mg/l (Frischwasser (freshwater))
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- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
- **Recommended filter device for short term use:**



Combination filter A-P2

- **Protection of hands:**



Plastic gloves

Only use chemical-protective gloves with CE-labelling of category III.
To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required.

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

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

- **Material of gloves**

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.5 mm

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.

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

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

Leather gloves

Strong gloves

- **Eye protection:**



Tightly sealed safety glasses.

- **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

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|--|--|
| · Change in condition
<i>Melting point/Melting range:</i> Not determined
<i>Boiling point/Boiling range:</i> ca. 135 °C | |
| · Flash point: | ca. 86 °C |
| · Ignition temperature: | 380 °C |
| · Self-inflammability: | Product is not selfigniting. |
| · Danger of explosion: | Product is not explosive. |
| · Critical values for explosion: | |
| Lower: | 1.3 Vol % |
| Upper: | 13.0 Vol % |
| · Vapour pressure at 20 °C: | 0.3 hPa |
| · Density at 20 °C | 1.02 g/cm ³ (ISO 2811-2) |
| · Solubility in / Miscibility with Water:
Not miscible or difficult to mix | |
| · Viscosity: | |
| dynamic at 20 °C: | 600 mPas (ISO 3219) |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** strong oxidizing agents
- **10.6 Hazardous decomposition products:**
in the event of fire:
Poisonous gases/vapours
Corrosive gases/vapours

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

100-51-6 Benzyl alcohol

Oral	LD50	1040 mg/kg (mou)
		1620 mg/kg (rat)
		1040 mg/kg (rbt)
Dermal	LD50	2000 mg/kg (rbt)

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

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

1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	930 mg/kg (rat)
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Dermal	LD50	3100 mg/kg (rab)
80-05-7 bisphenol A		
Oral	LD50	3250 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rbt)
Inhalative	LC50/4h	> 5 mg/l (rat)
109-55-7 3-aminopropyldimethylamine		
Oral	LD50	410 mg/kg (rat)
Dermal	LD50	1200 mg/kg (rat) 2139 mg/kg (rbt)
Inhalative	LC50/4h	24.8 mg/l (rat)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol		
Oral	LD50	2169 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** Caustic effect on skin and mucous membranes.

- **on the eye:** Strong caustic effect.

- **Sensitisation:** Sensitization possible by skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

Repr. 2

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

100-51-6 Benzyl alcohol

Algtoxizität (Algae toxicity)	79 mg/l (Scenedesmus quadricauda) (EC50(3h)) 640 mg/l (Alge Scenedesmus sp.) (EC50(96h))
Bakterien-Toxizität (Bacteria toxicity)	>658 mg/l (Pseudomonas putida) (EC50(16h)) 71.42 mg/l (Photobacterium phosphoreum) (EC50(0,5h)) 400 mg/l (Pseudomonas putida) (EC50(0,5h))
Daphnientoxizität (Daphnia toxicity)	400 mg/l (Daphnia magna (Wasserfloh)) (EC50(24h))
Fischtoxizität (Fish toxicity)	460 mg/l (Pimephales promelas) (LC50(96h)) 645 mg/l (Goldorfe (orfe)) (LC50(96h)) 10 mg/l (Lepomis macrochirus) (LC50 (96h))

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

Algtoxizität (Algae toxicity)	>50 mg/l (Scenedesmus subspicatus) (ErC50(72h))
Bakterien-Toxizität (Bacteria toxicity)	1120 mg/l (Pseudomonas putida) (EC10(18h))
Daphnientoxizität (Daphnia toxicity)	23 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Fischtoxizität (Fish toxicity)	110 mg/l (Leuciscus idus) (LC50(96h))

1477-55-0 m-phenylenebis(methylamine)

Algtoxizität (Algae toxicity)	20.3 mg/l (Selenastrum capricornutum) (EC50(72h))
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Daphnientoxizität (Daphnia toxicity)	15.2 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Fischtoxizität (Fish toxicity)	>100 mg/l (Ochorhyncus mykiss (Regenbogenforelle)) (LC50(96h)) 87.6 mg/l (Orycias Latipes) (LC50(96)) >100 mg/l (Zebrabärbling (zebra danio)) (LC50(96))
80-05-7 bisphenol A	
Algtoxizität (Algae toxicity)	<10 mg/l (-)
Fischtoxizität (Fish toxicity)	42 mg/l (-) (EC50(96h))
109-55-7 3-aminopropyldimethylamine	
Algtoxizität (Algae toxicity)	53.5 mg/l (Scenedesmus subspicatus) (LC/EC50 (72h))
Bakterien-Toxizität (Bacteria toxicity)	>1000 mg/l (Belebtschlamm (activated sludge)) (EC50 (0,5h)) 95 mg/l (Pseudomonas putida) (EC50 (17h))
Daphnientoxizität (Daphnia toxicity)	59.5 mg/l (Daphnia magna (Wasserfloh)) (EC50 (48h))
Fischtoxizität (Fish toxicity)	122 mg/l (Leuciscus idus) (LC50 (96h))
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol	
Fischtoxizität (Fish toxicity)	222 mg/l (Ochorhyncus mykiss (Regenbogenforelle)) (LC50(24h)) 84 mg/l (Scenedesmus subspicatus) (LC50(72h)) 718 mg/l (39) (EC50(96h)) 175 mg/l (Cyprinus carpio) (LC50(96h))

- **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.
- **Ecotoxic effects:** Not determined
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into soil.
- **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**

For disposal, local regulations issued by the authorities must be observed. Dispose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 02 00	wastes from MFSU of other coatings (including ceramic materials)
08 02 99	wastes not otherwise specified

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- **Uncleaned packagings:**
- **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 · IMDG, IATA	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)) AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
· 14.3 Transport hazard class(es) · ADR	
	
· Class · Label	8 (C7) Corrosive substances. 8
· IMDG, IATA	
	
· Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Kemler Number: · EMS Number: · Segregation groups	Warning: Corrosive substances. 80 F-A,S-B Alkalis
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Excepted quantities (EQ): · Limited quantities (LQ) · Transport category · Tunnel restriction code	E1 5L 3 E
· UN "Model Regulation":	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, III

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Changes made since last issue dated 21.08.2013 at the following points: *

- **Relevant phrases**

- H226 Flammable liquid and vapour.
 - 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.
 - H335 May cause respiratory irritation.
 - H361f Suspected of damaging fertility.
 - H412 Harmful to aquatic life with long lasting effects.
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- R10 Flammable.
 - R20/22 Harmful by inhalation and if swallowed.
 - R21/22 Harmful in contact with skin and if swallowed.
 - R34 Causes burns.
 - R37 Irritating to respiratory system.
 - R41 Risk of serious damage to eyes.
 - R43 May cause sensitisation by skin contact.
 - R48 Danger of serious damage to health by prolonged exposure.
 - R52 Harmful to aquatic organisms.
 - R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R62 Possible risk of impaired fertility.

- **Department issuing data specification sheet:**

Merlin Coatings Ltd
Unit 7, Kirkhall Workshops, Bilbao Street
Bolton, BL1 4HH, United Kingdom

- **Contact:**

Mr. P Brough
(paulb@merlin-coatings.com)

- **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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3
· * **Data compared to the previous version altered.**

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