

Safety Data Sheet

according to WHS Regulations

Printing date 06.02.2023

Version number 1

Revision: 06.02.2023

1 Identification

- **Product identifier**
- **Trade name: GC11B**
- **Article number:** 3350100004B
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Adhesives
- **Details of the supplier of the safety data sheet**
- **Supplier:**
Alfa Laval Technologies AB
SE-221 00 Lund
Sweden
+46 46 36 65 00
info.se@alfalaval.com
- **Australian supplier:**
Alfa Laval Australia Pty Ltd
Locked Bag 40, Blacktown Business Centre
NSW - NSW-2148 Blacktown
Australia
Visit: 14 Healey Circuit, - NSW - NSW-2148 Huntingwood
Tel switchboard: +61 2 8822 2700 - Fax switchboard: +61 2 8822 2799
www.alfalaval.com.au
australia.info@alfalaval.com
- **Further information obtainable from:**
For further questions regarding the safety data sheet, please contact your local Alfa Laval Sales Company which you find at www.alfalaval.com or in section 16 "Other Information" in the end of the safety data sheet
- **Emergency telephone number:**
Call 000 or 112 and ask for poison information.
Australian Poisons Information Centre Tel:13 11 26

2 Hazard(s) Identification

- **Classification of the substance or mixture**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irritation 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**

- **Signal word** Warning
- **Hazard-determining components of labelling:**
bis[4-(2,3-epoxypropoxy)phenyl]propane
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

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1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane

- **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

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.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** The product is not, nor contains, a substance that is, PBT.

- **vPvB:** The product is not, nor contains a substance that is, vPvB.

3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**

- **Description:**

CAS: 65997-17-3	Fibrous Glass	1-5%
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- **Dangerous components:**

CAS: 9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol ----- Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317	<30%
CAS: 1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane ----- Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irritation 2A, H319; Skin Sens. 1, H317	10-30%
CAS: 60676-86-0	Silica, fused	10-30%
CAS: 14228-73-0	1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane ----- Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	1-10%
CAS: 7631-86-9	silicon dioxide, chemically prepared	1-5%
CAS: 2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane ----- Eye Dam. 1, H318	<3%

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

4 First Aid Measures

- **Description of first aid measures**

- **General information:** Wash contaminated clothing before reuse.

- **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:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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- **After eye contact:**
Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice/attention.
- **After swallowing:**
Rinse the mouth with water.
Do not induce vomiting; call for medical help immediately.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
Water
Foam
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Aldehyde
Hydrogen chloride (HCl)
Carbon monoxide (CO)
Carbon dioxide
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not breathe vapour.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
- **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.

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7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**
Eye wash bottle or emergency eye wash fountain must be found in the work place.
Ensure adequate ventilation
Do not breathe vapour.
When using do not eat, drink or smoke.
See Section 8 for information on personal protection equipment.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep container tightly sealed.
- **Information about storage in one common storage facility:**
Do not store together with alkalis (caustic solutions).
Do not store together with acids.
Store away from oxidising agents.
Reacts with amines.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Specific end use(s)**
Adhesives
Professional use only.

8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** Use only in well-ventilated areas.
- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

CAS: 60676-86-0 Silica, fused	
WES	Long-term value: 0.05 mg/m ³

CAS: 7631-86-9 silicon dioxide, chemically prepared	
WES	Long-term value: 2 mg/m ³

- **DNELs**

CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane		
Dermal	DNEL - Long term, Systemic effects	0.75 mg/kg bw/day (Worker)
Inhalative	DNEL - Long term, Systemic effects	4.93 mg/m ³ (Worker)

CAS: 14228-73-0 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane		
Dermal	DNEL - Long term, Systemic effects	1 mg/kg bw/day (Worker)
Inhalative	DNEL - Long term, Systemic effects	3.52 mg/m ³ (Worker)

- **PNECs**

CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane	
PNEC	0.006 mg/L (Freshwater)

CAS: 14228-73-0 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane	
PNEC	0.117 mg/L (Freshwater)

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

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Ensure that washing facilities are available at the work place.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
- **Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.
- **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

- **Material of gloves**

polymer laminate

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 goggles

- **Body protection:**



Protective work clothing

- **Limitation and supervision of exposure into the environment**

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

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Paste

Colour: Grey

- **Odour:** Characteristic

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· Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Not applicable. Undetermined.
· Flash point:	≥100 °C
· Flammability (solid, gas):	Not determined.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Not applicable.
· Vapour pressure:	Not applicable.
· Density at 20 °C:	1.3-1.4 g/cm ³
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Not determined.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	400-800 mPas
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	<1 %
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** The material is stable under recommended storage and handling conditions.
- **Chemical stability**
Stable under normal temperature conditions and under recommended usage and storage.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** High temperature
- **Incompatible materials:** Reacts with alkali (lyes).
- **Hazardous decomposition products:** None known.

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11 Toxicological Information

- Information on toxicological effects

- Acute toxicity

ATE (calculated)	>5,000 mg/kg (Dermal)
	>5,000 mg/kg (Oral)

- LD/LC50 values relevant for classification:

CAS: 9003-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	>1.7 mg/L (Rat)

CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

Oral	LD50	>1,000 mg/kg (Rat)
Dermal	LD50	>1,600 mg/kg (Rat)

CAS: 14228-73-0 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane

Oral	LD50	1,098 mg/kg (Rat)
Dermal	LD50	2,500 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	5.19 mg/L (Rat)

CAS: 2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Oral	LD50	7,010 mg/kg (Rat)
Dermal	LD50	4,000 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	>5.3 mg/L (Rat)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	LD50	>2,930 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

- Primary irritant effect:

- Skin corrosion/irritation** Irritant to skin and mucous membranes.

- Serious eye damage/irritation**

Causes serious eye irritation.
Irritating effect.

CAS: 2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Irritation of eyes	Serious Eye Damage/Irritation	(Rabbit) (Corrosive)
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- Respiratory or skin sensitisation** Sensitisation possible through skin contact.

- Additional toxicological information:**

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

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

- Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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12 Ecological Information

· Toxicity

· Aquatic toxicity:

CAS: 9003-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

LC50 (96 h)	0.55 mg/L (Fish)
EC50 (48 h)	1.6 mg/L (Daphnia)
EC50 (72 h)	1.8 mg/L (Algae)
NOEC - No observed effect concentration	0.3 mg/l (Daphnia)

CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

LC50 (96 h)	2 mg/L (Fish)
EC50 (48 h)	1.8 mg/L (Daphnia)
EC50 (72 h)	>11 mg/L (Algae)
NOEC - No observed effect concentration	4.2 mg/l (Algae) 0.3 mg/l (Daphnia)

CAS: 14228-73-0 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane

LC50 (96 h)	10.1 mg/L (Fish)
EC50 (48 h)	16.3 mg/L (Daphnia)
EC50 (72 h)	26.7 mg/L (Algae)
NOEC - No observed effect concentration	11.7 mg/l (Daphnia)

CAS: 2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

EC50	350 mg/L (Algae) (96h) 473 mg/L (Daphnia) (48h)
NOEC - No observed effect concentration	130 mg/l (Algae) (21d)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

LC50 (96 h)	>100 mg/L (Fish)
EC50 (48 h)	0.48 mg/L (Daphnia)
EC50 (72 h)	>0.4 mg/L (Algae)
NOEC - No observed effect concentration	0.4 mg/l (Algae) 0.023 mg/l (Daphnia) 0.053 mg/l (Fish)

· Persistence and degradability

CAS: 9003-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Biodegradability | 16 % (Experimental) (OECD 301B)

CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

Biodegradability | 5 % (Experimental) (OECD 301F)

CAS: 14228-73-0 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane

Biodegradability | 16.6 % (Calculated) (OECD 301F)

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Behaviour in environmental systems:**Bioaccumulative potential****CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Bioconcentration factor | 31 (Calculated)

CAS: 14228-73-0 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane

Bioaccumulation factor | 3 (Calculated)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Bioaccumulation factor | 1,277 (Fish) (OECD 305E)

- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Hand over to hazardous waste disposers.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- | | |
|----------------------------------|---|
| · UN-Number | UN3077 |
| · ADG, IATA | Not regulated |
| · IMDG | Not regulated |
| · UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (phenol, polymer with formaldehyde, glycidyl ether, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)) |
| · ADG, IMDG | |
| · IATA | |

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· **Transport hazard class(es)**

· **ADG**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **IMDG**



· **Class**

Not regulated

· **IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **Packing group**

· **ADG, IATA**

III

· **IMDG**

Not regulated

· **Environmental hazards:**

Environmentally hazardous substance, solid
Product contains environmentally hazardous substances: bis[4-(2,3-epoxypropoxy)phenyl] propane

· **Marine pollutant:**

Yes

· **Special marking (ADG):**

Symbol (fish and tree)

· **Special precautions for user**

The product is assigned special provision 375 in ADR 2017, materials carried under UN3077 in either single or inner packaging of 5L or less for liquids or 5kg or less for solids, are not subject to any other provisions of ADR/ADR-S, provided they are packed in good quality packaging and adhere to the general packaging provisions. The same provision can be found in IMDG 2016 2.10.2.7, and as Special Provision A197 in the current 58th edition of IATA.

Warning: Miscellaneous dangerous substances and articles.

· **Hazard identification number (Kemler code):** 90

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· Stowage Category	A
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADG	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· Transport category	3
· UN "Model Regulation":	Not regulated

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

- **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

- **Australia: Priority Existing Chemicals**

All ingredients are listed.

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



- **Signal word** Warning

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

bis[4-(2,3-epoxypropoxy)phenyl]propane

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane

- **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

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.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations. (Contd. of page 11)

- **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
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

Please contact your local Alfa Laval Sales Company for further questions.

www.alfalaval.com

· **Relevant phrases**

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

· **Department issuing SDS:** Alfa Laval Corporate Standards & Regulatory Operations

· **Contact:**

Please contact your local Alfa Laval Sales Company for further questions.

Argentina: alfa.consulta@alfalaval.com

Australia: australia.info@alfalaval.com

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Norway: info.no@alfalaval.com
Peru: ventas.peru@alfalaval.com
Philippines: philippines.info@alfalaval.com
Poland: poland.info@alfalaval.com
Portugal: portugal.info@alfalaval.com
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Slovenia: slovenija.info@alfalaval.com
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Spain: info.spain@alfalaval.com
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Switzerland: info.mideurope@alfalaval.com
Taiwan: taiwan.info@alfalaval.com
Thailand: thailand.info@alfalaval.com
Turkey: turkey@alfalaval.com
Ukraine: ukraine.info@alfalaval.com
United Arab Emirates: alme.marketing@alfalaval.com
United Kingdom: general.uk@alfalaval.com
United States: customerservice.usa@alfalaval.com
Venezuela: venezuela.info@alfalaval.com
Vietnam: vietnam.info@alfalaval.com

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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
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

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Safety Data Sheet according to WHS Regulations

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Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1

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