

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 02/03/2017

Version 3

Reviewed on 02/03/2017



### 1 Identification

- **Product identifier**
- **Trade name: GC11B**
- **Article number:** 3350100004B
- **Application of the substance / the mixture** Adhesives
- **Details of the supplier of the safety data sheet**
- **Supplier:**  
Alfa Laval Lund AB  
Box 74  
SE-221 00 Lund  
Sweden  
+46 46 36 65 00  
info.se@alfalaval.com
- **Information department:**  
For additional questions regarding safety data sheets please contact your local Alfa Laval Sales Company which you find on [www.alfalaval.com](http://www.alfalaval.com) or in safety data sheet under section 16: Other Informaion
- **Emergency telephone number:** US and Canada: 911

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Sens. 1 H317 May cause an allergic skin reaction.

---

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**  

  
 GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labeling:**  
phenol, polymer with formaldehyde, glycidyl ether  
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)  
1,4-Bis[(2,3-epoxipropoxy)metyl]cyklohexan  
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
- **Hazard statements**  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
P280 Wear protective gloves.

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- P273 Avoid release to the environment.
- 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.
- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:**

CAS: 67762-90-7	Dimethyl siloxane, reaction product with silicon oxide	1-5%
CAS: 7631-86-9	silicon dioxide, chemically prepared	1-5%

- **Dangerous components:**

CAS: 28064-14-4	phenol, polymer with formaldehyde, glycidyl ether Skin Sens. 1, H317	20-35%
CAS: 60676-86-0	Silica, fused Acute Tox. 2, H330	20-30%
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700) Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	25-50%
CAS: 14228-73-0	1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexan Skin Sens. 1, H317	5-10%
CAS: 9003-36-5	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	$\leq$ 10%
CAS: 2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Acute Tox. 3, H331; Eye Dam. 1, H318	1-5%
CAS: 2602-34-8	(3-(2,3-Epoxypropoxy)propyl)triethoxysilan Acute Tox. 4, H332	0-3%

### 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:**  
If skin irritation continues, consult a doctor.

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- Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Remove contact lenses, if present and easy to do. Continue rinsing.  
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.  
IF SWALLOWED: Immediately call a POISON CENTER.  
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** Refer to section 11.1
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Water  
Foam
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
Carbon dioxide
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Keep away from ignition sources  
Do not breathe vapour.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.  
Send for recovery or disposal in suitable receptacles.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
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**  
Ensure that suitable extractors are available on processing machines  
Do not breathe vapour.  
Wash thoroughly after handling.  
When using do not eat, drink or smoke.  
See Section 8 for information on personal protection equipment.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Keep container tightly closed.
- **Information about storage in one common storage facility:**  
Do not store together with acids.  
Store away from oxidizing agents.  
Store away from amines
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **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.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **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.  
Use only in well-ventilated areas.  
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

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· **Material of gloves**

Polymere 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

### 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Highly viscous

Color: Black

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: =>150 °C (=>302 °F)

· **Flash point:** > 90 °C (> 194 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not selfigniting.

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

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapor pressure:** Not determined.

· **Density:** Not determined.

· **Relative density at 20 °C (68 °F)** 1.29 g/cm<sup>3</sup> (10.765 lbs/gal)

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

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· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 23 °C (73 °F):</b>	600000 mPas
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	<1 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** Reacts with strong oxidizing agents.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** High heat
- **Incompatible materials:**  
Reacts with amines.  
Store away from oxidizing agents.
- **Hazardous decomposition products:**  
In case of fire, the following can be released:  
Carbon monoxide and carbon dioxide

### 11 Toxicological information

#### CAS: 60676-86-0 Silica, fused

Oral	NOAEL	509 mg/kg (rat) (1 generation)
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#### CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Oral	NOAEL	750 mg/kg (rat) (2 generations)
Irritation of skin	Skin corrosion/Irritation	4 h (rabbit) (OECD Guideline 404)
Irritation of eyes	Serious Eye Damage/Irritation	- (rabbit) (OECD Guideline 405)

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

Oral	NOAEL	1000 mg/kg (rat) (1 generation)
------	-------	---------------------------------

#### Information on toxicological effects

##### Acute toxicity:

#### CAS: 28064-14-4 phenol, polymer with formaldehyde, glycidyl ether

Oral	LD50	>4000 mg/kg (rat)
Dermal	LD50	>6000 mg/kg (rabbit)
Inhalative	LC50/4 h	>1.7 mg/l (rat)

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**CAS: 60676-86-0 Silica, fused**

Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	>0.691 mg/l (rat)

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

Dermal	LD50	> 1600 mg/kg (rat)
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**CAS: 14228-73-0 1,4-Bis[(2,3-epoxypropoxy)methyl]cyklohexan**

Oral	LD50	2450 mg/kg (rat)
Dermal	LD50	2500 mg/kg (rabbit)

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

Oral	LD50	7010 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5.3 mg/l (rat)

- **Primary irritant effect:**

- **on the skin:**

Sensitizing effect by skin contact is possible with prolonged exposure.  
Irritant to skin and mucous membranes.

- **on the eye:**

May cause irreversible eye damage  
Irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

CAS: 60676-86-0	Silica, fused	3
CAS: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 1333-86-4	Carbon black	2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**

- **CAS: 60676-86-0 Silica, fused**

EC50 > 10000 mg/L (Fish) (Experimental)

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

EC50 220 mg/L (Algae)

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**CAS: 14228-73-0 1,4-Bis[(2,3-epoxipropoxy)metyl]cyklohexan**

EC50 &gt;93 mg/L (Algae) (72h)

· **Aquatic toxicity:****CAS: 28064-14-4 phenol, polymer with formaldehyde, glycidyl ether**

EC50 3.5 mg/kg (daphnia) (48h)

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

LC50 (96h) 1.75 mg/L (Fish) (OECD Guideline 203)

EC50 1.1-3.6 mg/L (daphnia)

**CAS: 14228-73-0 1,4-Bis[(2,3-epoxipropoxy)metyl]cyklohexan**

LC50 (96h) 13 mg/L (Fish)

EC50 22 mg/kg (daphnia) (48h)

NOEC - No observed effect concentration 29 mg/l (Algae) (72h)

**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)

· **Persistence and degradability****CAS: 28064-14-4 phenol, polymer with formaldehyde, glycidyl ether**

Biodegradability 10 weight % (No information available) (OECD 301B - Mod Sturm or CO2)

· **Behavior in environmental systems:**· **Components:**

7631-86-9 Amorphous silicon dioxide: Duration: 96 h, Endpoint: LL0, Effect concentration: 10000 mg/L, Nominal Concentration based on test material. Basis for effect: Mortality: 0/20 animals died. After 96 h of exposure all animals were alive and their condition (swimming behaviour, colour, respiratory function or any other visually observable morphological or behavioural criterion) was equal to that of the control animals. Species: Zebra fish (Brachydanio rerio (new name: Danio rerio)). OECD Guideline 203 (Fish, Acute Toxicity Test). Key study, Study period: 19 Nov. 1991 - 23 Nov. 1991, Reliability: 1 (reliable without restriction), Rationale for reliability incl. deficiencies: GLP guideline study.

· **Bioaccumulative potential****CAS: 28064-14-4 phenol, polymer with formaldehyde, glycidyl ether**

Bioaccumulation factor ≤7.6 (No information available) (calculated bio concentration factor)

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

Bioaccumulation factor &lt;42 (No information available)

· **Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Toxic for fish· **Additional ecological information:**· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

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- **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 of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

### 14 Transport information

- |                                  |  |
|----------------------------------|--|
| · <b>UN-Number</b>               |  |
| · <b>DOT, ADR, IMDG, IATA</b>    | UN3077   |
| · <b>UN proper shipping name</b> |  |
| · <b>DOT</b>                     | Environmentally hazardous substances, solid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)                  |
| · <b>ADR</b>                     | 3077 Environmentally hazardous substances, solid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)             |
| · <b>IMDG</b>                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), MARINE POLLUTANT |
| · <b>IATA</b>                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)                   |

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· **Transport hazard class(es)**

· **ADR**



· **Class**

9 Miscellaneous dangerous substances and articles

· **IMDG, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles

· **Label**

9

· **Packing group**

· **ADR, IMDG, IATA**

III

· **Environmental hazards:**

Environmentally hazardous substance, solid

· **Marine pollutant:**

Yes

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special marking (IATA):**

Symbol (fish and tree)

· **Special precautions for user**

The products 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 packagings 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

· **EMS Number:**

F-A,S-F

· **Stowage Category**

A

· **Stowage Code**

SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT $\leq$ 700), FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL), 9, III

### 15 Regulatory information

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

EU regulation (EC) no 1272/2008 (CLP)  
 EC DIRECTIVE 2008/98/EC (waste)  
 EU Regulation (EC) no.1907/2006 (REACH)

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

CAS: 28064-14-4	phenol, polymer with formaldehyde, glycidyl ether
CAS: 60676-86-0	Silica, fused
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)
CAS: 25053-09-2	Methylmetakrylat-butadienstyrenpolymer
CAS: 14228-73-0	1,4-Bis[(2,3-epoxipropoxi)metyl]cyklohexan
CAS: 7631-86-9	silicon dioxide, chemically prepared
CAS: 1333-86-4	Carbon black

- **Proposition 65**

- **Chemicals known to cause cancer:**

CAS: 1333-86-4 | Carbon black

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

CAS: 1333-86-4 Carbon black

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

CAS: 60676-86-0 Silica, fused

CAS: 1333-86-4 Carbon black

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05 GHS07

· **Signal word** Danger

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

phenol, polymer with formaldehyde, glycidyl ether

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)

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

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

· **Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

· **Precautionary statements**

P280 Wear protective gloves.

P273 Avoid release to the environment.

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.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

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

· **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

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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:  
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· **Department issuing SDS:** Alfa Laval Materials and Chemistry Centre (MACC)

· **Contact:**

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

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## Safety Data Sheet

acc. to OSHA HCS

Printing date 02/03/2017

Version 3

Reviewed on 02/03/2017

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· **Date of preparation / last revision 02/03/2017 / 2**

· **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  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
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)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Acute Tox. 2: Acute toxicity – Category 2  
Acute Tox. 3: Acute toxicity – Category 3  
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 Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1

· **\* Data compared to the previous version altered.**

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