

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

Printing date 03.02.2017

Version number 15



Revision: 03.02.2017

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

- **1.1 Product identifier**
 - **Trade name: GC11B**
 - **Article number:** 3350100004B
 - **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** Adhesives
 - **1.3 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
 - **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
 - **1.4 Emergency telephone number:**
For immediate, life-threatening emergencies, call 999
For health advice and information (24h) dial 111 (NHS direct).
- In Europe: Call 112 and ask for poison information.

SECTION 2: Hazards identification

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

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Aquatic Chronic 2	H411	Toxic 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**

GHS07 GHS09
- **Signal word** Warning
- **Hazard-determining components of labelling:**
phenol, polymer with formaldehyde, glycidyl ether
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

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

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

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

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.

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

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

Additional information:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:**

CAS: 67762-90-7	Dimethyl siloxane, reaction product with silicon oxide	1-5%
CAS: 7631-86-9 EINECS: 231-545-4	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 EINECS: 262-373-8	Silica, fused Acute Tox. 2, H330	20-30%
CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	15-30%
CAS: 14228-73-0 EINECS: 238-098-4	1,4-Bis[(2,3-epoxipropoxy)methyl]cyklohexan Skin Sens. 1, H317	5-10%
CAS: 9003-36-5 NLP: 500-006-8	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≤10%
CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilan Acute Tox. 3, H331; Eye Dam. 1, H318; Skin Irrit. 2, H315	1-5%
CAS: 2602-34-8 EINECS: 220-011-6	(3-(2,3-Epoxypropoxy)propyl)triethoxysilan Acute Tox. 4, H332	0-3%

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- **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:** 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.
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.
- **4.2 Most important symptoms and effects, both acute and delayed** Refer to section 11.1
- **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:**
Water
Foam
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from ignition sources.
Do not breathe vapour.
- **6.2 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.

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- Send for recovery or disposal in suitable receptacles.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**
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**
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 fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store 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 oxidising agents.
Store away from amines
- **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 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**
7631-86-9 Amorphous silicon dioxide: Hazard via inhalation route: Long term exposure: 4 mg/m³, Most sensitive endpoint: Irritation (respiratory tract).
2530-83-8 [3-(2,3-epoxypropoxy)propyl] trimethoxysilane: Hazard via inhalation route: Long term exposure: 147 mg/m³, Most sensitive endpoint: Repeated dose toxicity, Overall assessment factor: 6, Dose descriptor starting point: NOAEC.
1333-86-4 Carbon black: Hazard via inhalation route: Long term exposure: 2 mg/m³, Most sensitive endpoint: Repeated dose toxicity, Overall assessment factor: 1, Dose descriptor starting point: NOAEC.
- **PNECs**
2530-83-8 [3-(2,3-epoxypropoxy)propyl] trimethoxysilane: Aqua (freshwater): 1 mg/L, Assessment factor: 100, Extrapolation method: Assessment factor.
1333-86-4 Carbon black: Aqua (freshwater): 5 mg/L, Assessment factor: 1000, Extrapolation method: Assessment factor.

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

· **8.2 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

· **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

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

· **Form:** Highly viscous

· **Colour:** Black

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/freezing point:** Undetermined.

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Initial boiling point and boiling range: =>150 °C	
· Flash point:	> 90 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	
· 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.
· Vapour pressure:	Not determined.
· Density:	Not determined.
· Relative density at 20 °C	1.29 g/cm ³
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 23 °C:	600000 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	<1 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Reacts with strong oxidising agents.
- **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** High heat
- **10.5 Incompatible materials:**
Reacts with amines.
Store away from oxidising agents.
- **10.6 Hazardous decomposition products:**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide

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SECTION 11: Toxicological information

CAS: 60676-86-0 Silica, fused

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

Oral	NOAEL	750 mg/kg (rat) (2 generations) 750 mg/kg/day
Irritation of skin	Skin corrosion/Irritation	4 h (rabbit) (OECD Guideline 404) OECD Guideline 404 (Acute Dermal Irritation / Corrosion) Result: Slightly irritating.
Irritation of eyes	Serious Eye Damage/Irritation	- (rabbit) (OECD Guideline 405) OECD Guideline 405 (Acute Eye Irritation / Corrosion) Result: Not irritating.

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

Oral	NOAEL	1000 mg/kg (rat) (1 generation) 1000 mg/kg/days
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11.1 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)

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 \leq 700)

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

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)

Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation

Sensitising effect by skin contact is possible by prolonged exposure.
Causes skin irritation.

Serious eye damage/irritation

May cause irreversible eye damage

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- Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

CAS: 60676-86-0 Silica, fused

EC50	> 10000 mg/L (Fish) (Experimental) 72 hours
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CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

EC50	220 mg/L (Algae) Chlorophyta
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CAS: 14228-73-0 1,4-Bis[(2,3-epoxipropoxy)methyl]cyclohexan

EC50	>93 mg/L (Algae) (72h)
------	------------------------

· Aquatic toxicity:

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

EC50	3.5 mg/kg (daphnia) (48h)
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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) OECD Guideline 203 (Fish, Acute Toxicity Test), Oncorhynchus mykiss, 96 h.
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EC50	1.1-3.6 mg/L (daphnia) Daphnia magna
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CAS: 14228-73-0 1,4-Bis[(2,3-epoxipropoxy)methyl]cyclohexan

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)

· 12.2 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) Carbondioxid formation study. 28 days
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- **Behaviour 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.

- **12.3 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 < 42 (No information available)

- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (German Regulation) (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

- **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**

Hand over to hazardous waste disposers.

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

- **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 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

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20 01 00	separately collected fractions (except 15 01)
20 01 27*	paint, inks, adhesives and resins containing dangerous substances

- **Uncleaned packaging:**
- **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA 	<p>UN3077</p>
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA 	<p>3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), MARINE POLLUTANT</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)</p>
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR 	<div style="display: flex; align-items: center;">   </div> <p>· Class 9 Miscellaneous dangerous substances and articles.</p>
<ul style="list-style-type: none"> · IMDG, IATA 	<div style="display: flex; align-items: center;">   </div> <p>· Class 9 Miscellaneous dangerous substances and articles.</p> <p>· Label 9</p>

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<ul style="list-style-type: none">· 14.4 Packing group· ADR, IMDG, IATA	III
<ul style="list-style-type: none">· 14.5 Environmental hazards:· Marine pollutant:· Special marking (ADR):· Special marking (IATA):	Environmentally hazardous substance, solid Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none">· 14.6 Special precautions for user· EMS Number:· Stowage Category· Stowage Code	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 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. F-A,S-F A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
<ul style="list-style-type: none">· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
<ul style="list-style-type: none">· Transport/Additional information:	
<ul style="list-style-type: none">· ADR· Limited quantities (LQ)· Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none">· IMDG· Limited quantities (LQ)· Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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- **UN "Model Regulation":** UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700), FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL), 9, III

SECTION 15: Regulatory information

- **15.1 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)
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **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.

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**
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H330 Fatal if inhaled.
 - H331 Toxic if inhaled.
 - H332 Harmful if inhaled.

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H411 Toxic to aquatic life with long lasting effects.

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

· **Contact:**

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

Argentina: alfa.consulta@alfalaval.com

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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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
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. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

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