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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 Technologies AB
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.

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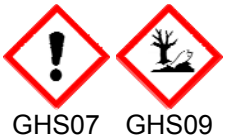
SECTION 2: Hazards identification

· **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:**
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.

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H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

· **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.

· **2.3 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.

· **Determination of endocrine-disrupting properties**		
CAS: 1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	List II
CAS: 128-37-0	2,6-di-tert-butyl-p-cresol	List II

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SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:**		
CAS: 7631-86-9 EINECS: 231-545-4 Reg.nr.: 01-2119379499-16	silicon dioxide, chemically prepared	1-5%
CAS: 65997-17-3 EINECS: 266-046-0	Fibrous Glass	1-5%

· **Dangerous components:**		
CAS: 9003-36-5 NLP: 500-006-8	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317	<30%
CAS: 1675-54-3 EINECS: 216-823-5	bis[4-(2,3-epoxypropoxy)phenyl]propane Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 %	10-30%
CAS: 60676-86-0 EINECS: 262-373-8	Silica, fused substance with a Community workplace exposure limit	10-30%
CAS: 14228-73-0 EINECS: 238-098-4	1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	1-10%
CAS: 2530-83-8 EINECS: 219-784-2 Reg.nr.: 01-2119513212-58	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318	<3%

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CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119565113-46	2,6-di-tert-butyl-p-cresol Aquatic Acute 1, H400; Aquatic Chronic 1, H410	<0.5%

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

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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:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· **After eye contact:**
Rinse cautiously with water for 20 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.
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

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SECTION 5: Firefighting measures

· **5.1 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
· **5.2 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
· **5.3 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.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Do not breathe vapour.
· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **6.3 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.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

· **7.1 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.

· **7.2 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.
· **7.3 Specific end use(s)**
Adhesives
Professional use only.

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
CAS: 60676-86-0 Silica, fused	
WEL	Long-term value: 0.08 mg/m³ fused respirable dust
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol	
WEL	Long-term value: 10 mg/m³

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· **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/m3 (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/m3 (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.

· **8.2 Exposure controls**
· **Appropriate engineering controls** Use only in well-ventilated areas.
· **Individual protection measures, such as 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.
· **Hand protection**

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/face protection**

Tightly sealed goggles

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· **Body protection:**

Protective work clothing

· **Environmental exposure controls** Do not allow to enter sewers/ surface or ground water.

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Colour:**	Grey
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	Undetermined.
· **Boiling point or initial boiling point and boiling range**	Not applicable. Undetermined.
· **Flammability**	Not determined.
· **Lower and upper explosion limit**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	≥100 °C
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Decomposition temperature:**	Not determined.
· **pH**	Not applicable.
· **Viscosity:**	
· **Kinematic viscosity**	Not applicable.
· **Dynamic at 20 °C:**	400-800 mPas
· **Solubility**	
· **water:**	Not determined.
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure:**	Not applicable.
· **Density and/or relative density**	
· **Density at 20 °C:**	1.3-1.4 g/cm³
· **Vapour density**	Not applicable.
· **Particle characteristics**	See item 3.

· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Paste
· **Explosive properties:**	Product does not present an explosion hazard.
· **Solvent content:**	
· **Organic solvents:**	<1 %
· **Change in condition**	
· **Drip point:**	
· **Oxidising properties**	Not applicable.
· **Evaporation rate**	Not applicable.

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· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Void
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	Void
· **Pyrophoric liquids**	Void
· **Pyrophoric solids**	Void
· **Self-heating substances and mixtures**	Void
· **Substances and mixtures, which emit flammable gases in contact with water**	Void
· **Oxidising liquids**	Void
· **Oxidising solids**	Void
· **Organic peroxides**	Void
· **Corrosive to metals**	Void
· **Desensitised explosives**	Void

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SECTION 10: Stability and reactivity

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

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SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **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)

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CAS: 60676-86-0 Silica, fused		
Oral	LD50	>5,110 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	>0.691 mg/L (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)

· **Skin corrosion/irritation**
Causes skin irritation.
· **Serious eye damage/irritation**
Causes serious eye irritation.

CAS: 2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane		
Irritation of eyes	Serious Eye Damage/Irritation	(Rabbit) (Corrosive)

· **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
· **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.
· **11.2 Information on other hazards**
· **Endocrine disrupting properties**
Endocrine disrupting properties from https://edlists.org

CAS: 1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	List II
CAS: 128-37-0	2,6-di-tert-butyl-p-cresol	List II

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SECTION 12: Ecological information

· **12.1 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)

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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: 60676-86-0 Silica, fused	
LC50 (96 h)	>10,000 mg/L (Fish) (Karp)
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) 72 h 0.023 mg/l (Daphnia) 21 d 0.053 mg/l (Fish) 42 d

· **12.2 Persistence and degradability**

CAS: 9003-36-5 Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	
Biodegradability	16 % (Experimental) (OECD 301B) 28 d
CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane	
Biodegradability	5 % (Experimental) (OECD 301F) 28 d BOD/ThBOD
CAS: 14228-73-0 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane	
Biodegradability	16.6 % (Calculated) (OECD 301F) 28 d

· **12.3 Bioaccumulative potential**

CAS: 1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane	
Bioconcentration factor	31 (Calculated)

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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)

· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties**
For information on endocrine disrupting properties see section 11.
· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:** Toxic for aquatic organisms

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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.
· **yes European waste catalogue**
The European Waste Catalogue (EWC) waste codes do not refer to product but to origin. The manufacturer is therefore unable to quote a waste code for products which are used in various industries. Any codes shown should be regarded as a recommendation to the user.

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 hazardous substances
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 27*	paint, inks, adhesives and resins containing hazardous substances

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

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SECTION 14: Transport information

· **14.1 UN number or ID number**
· **ADR, IATA** UN3077
· **IMDG** Not regulated

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· **14.2 UN proper shipping name**	
· **ADR**	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (phenol, polymer with formaldehyde, glycidyl ether, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
· **IMDG**	Not regulated
· **IATA**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (phenol, polymer with formaldehyde, glycidyl ether, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
· **14.3 Transport hazard class(es)**	
· **ADR**	
· **Class**	9 Miscellaneous dangerous substances and articles.
· **Label**	9
· **IMDG**	
· **Class**	Not regulated
· **IATA**	
· **Class**	9 Miscellaneous dangerous substances and articles.
· **Label**	9
· **14.4 Packing group**	
· **ADR, IATA**	III
· **IMDG**	Not regulated
· **14.5 Environmental hazards:**	Environmentally hazardous substance, solid Product contains environmentally hazardous substances: bis[4-(2,3-epoxypropoxy)phenyl] propane
· **Marine pollutant:**	Yes
· **Special marking (ADR):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	The productis assigned special provision 375 in ADR 2017, materials carried under UN3077 in either single or inner packaging of 5L or less for

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·	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.
· **Hazard identification number (Kemler code):**	90
· **Stowage Category**	A
· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **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":**	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER, REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)), 9, III

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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

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

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· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**
None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
None of the ingredients is listed.

· **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**
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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing SDS:** Alfa Laval Corporate Standards & Regulatory Operations
· **Contact:**
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· **Date of previous version:** 03.02.2017
· **Version number of previous version:** 15
· **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

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IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin 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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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