

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

Printing date 30.03.2022

Version number 12 (replaces version 11)

Revision: 30.03.2022

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

- **1.1 Product identifier**
- **Trade name:** GC11A
- **Article number:** 3350100004A
- **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** Hardening agent/ Curing agent
- **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.

SECTION 2: Hazards identification

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

Skin Corr. 1C	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Chronic 3	H412 Harmful 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**



GHS05 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia
2,4,6-tris(dimethylaminomethyl)phenol
2-piperazin-1-ylethylamine
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxy-4-(1-piperazinyl)
ethylaminobutyl-terminated

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Hazard statements

- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P260 Do not breathe vapours.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 2.3 Other hazards** Contains 1-piperazinethanamine. May produce an allergic reaction.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:**

Mixture: consisting of the following components.

CAS: 67762-90-7 Dimethyl siloxane, reaction product with silicon oxide	1-5%
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Dangerous components:

CAS: 9046-10-0 EC number: 618-561-0 Reg.nr.: 01-2119557899-12	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	30-60%
CAS: 1332-58-7	Kaolin substance with a Community workplace exposure limit	15-40%
CAS: 68683-29-4	2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxy-4-(1-piperazinyl)ethylaminobutyl-terminated Skin Irrit. 2, H315; Skin Sens. 1, H317	10-20%
CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	1-5%
CAS: 140-31-8 EINECS: 205-411-0	2-piperazin-1-ylethylamine Acute Tox. 3, H311; Repr. 2, H361d; STOT RE 1, H372; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	<1%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide Carc. 2, H351	<1%

- 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:

Immediately remove any clothing soiled by the product.

Wash contaminated clothing before reuse.

· **After inhalation:** Supply fresh air; consult doctor if symptoms persist.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If symptoms persist consult a doctor.

· After eye contact:

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Seek immediate medical advice.

· After swallowing:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Call for a doctor 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.

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:

Carbon monoxide (CO)

Carbon dioxide

Nitrogen oxides (NO_x)

· 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.

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.

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- **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Send for recovery or disposal in suitable receptacles.
- **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.

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 away from heat and direct sunlight.
- **Information about storage in one common storage facility:**
Do not store together with acids.
Store away from oxidising agents.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)**
Adhesives
Professional use only.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

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

CAS: 1332-58-7 Kaolin	
WEL	Long-term value: 2 mg/m ³
CAS: 13463-67-7 titanium dioxide	
WEL	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable

- **DNELs**

CAS: 9046-10-0 Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia		
Dermal	DNEL - Long term, Systemic effects	2.5 mg/kg bw/day (Worker)
	DNEL - Long term, Local effects	0.623 mg/cm ² (Worker)
CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol		
Inhalative	DNEL - Acute, Systemic effects	0.31 mg/m ³ (Worker)
CAS: 140-31-8 2-piperazin-1-ylethylamine		
Inhalative	DNEL - Long term, Systemic effects	3.6 mg/m ³ (Worker)

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· PNECs

CAS: 9046-10-0 Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

PNEC 0.015 mg/L (Freshwater)

PNEC 0.0143 mg/L (Saltwater)

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

PNEC 0.084 mg/L (Freshwater)

PNEC 0.2 mg/L (Water treatment plant)

CAS: 140-31-8 2-piperazin-1-ylethylamine

PNEC 0.058 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.

Filter A/P2

· **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**

Butyl rubber, BR

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.

SECTION 9: Physical and chemical properties

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

· **General Information**

· Colour:	Whitish
· Odour:	Amine-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	Not applicable. Undetermined.
· Lower and upper explosion limit	
· Lower:	Not applicable.
· Upper:	Not applicable.
· Flash point:	≥100 °C
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH	Not applicable.
· Viscosity:	
· Kinematic viscosity	Not determined. Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water:	Not determined.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density:	Not determined.
· Relative density	1.25-1.31 g/cm ³
· Vapour density	Not determined.
· Particle characteristics	See item 3.

· **9.2 Other information**

· Appearance:	
· Form:	Paste
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Drip point:	
· Oxidising properties	Not applicable.
· Evaporation rate	Not determined.

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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

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** Keep away from heat.
- **10.5 Incompatible materials:** Reacts with strong oxidising agents.
- **10.6 Hazardous decomposition products:** None known.

SECTION 11: Toxicological information

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

· Acute toxicity

	ATE (calculated)	2,000-5,000 mg/kg (Dermal) >5,000 mg/kg (Oral)
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CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Dermal	NOAEL	125 mg/kg (Rat) (28 d) target organ: skin, liver, nervous system
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CAS: 140-31-8 2-piperazin-1-ylethylamine

Oral	NOEAL	598 mg/kg (Rat) 28 d
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LD/LC50 values relevant for classification:
CAS: 9046-10-0 Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Oral	LD50	2,885 mg/kg (Rat)
Dermal	LD50	2,980 mg/kg (Rat)

CAS: 1332-58-7 Kaolin

Oral	LD50	>15,000 mg/kg (Worker)
Dermal	LD50	>5,000 mg/kg

CAS: 68683-29-4 2-Propenenitrile, polymer with 1,3-butadiene,1-cyano-1-methyl-4-oxy-4-(1-piperazinyl)ethylaminobutyl-terminated

Oral	LD50	>15,300 mg/kg (Rat)
Dermal	LD50	>3,000 mg/kg (Rabbit)

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

Oral	LD50	1,000 mg/kg (Rat)
Dermal	LD50	1,280 mg/kg (Rat)

CAS: 140-31-8 2-piperazin-1-ylethylamine

Oral	LD50	1,470 mg/kg (Rat)
Dermal	LD50	865 mg/kg (Rabbit)

CAS: 13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	>6.82 mg/L (Rat)

Skin corrosion/irritation

Causes burns.

CAS: 9046-10-0 Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Irritation of skin	Skin Corrosion/Irritation	(Rabbit) (OECD 404) CORROSIVE
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CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Irritation of skin	Skin Corrosion/Irritation	Corrosive
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CAS: 140-31-8 2-piperazin-1-ylethylamine

Irritation of skin	Skin Corrosion/Irritation	(Rabbit) Corrosive
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Serious eye damage/irritation

Causes burns.

CAS: 9046-10-0 Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Irritation of eyes	Serious Eye Damage/Irritation	(Rabbit) (OECD 405) CORROSIVE
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CAS: 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Irritation of eyes	Serious Eye Damage/Irritation	Corrosive
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CAS: 140-31-8 2-piperazin-1-ylethylamine

Irritation of eyes	Serious Eye Damage/Irritation	(Rabbit) Corrosive
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- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.

CAS: 140-31-8 2-piperazin-1-ylethylamine

Sensitisation	Respiratory or skin sensitization	(Guinea pig)
		Sensitising

- **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.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)**
Ingestion: May cause damage to the intestinal canal and stomach.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
Endocrine disrupting properties from <https://edlists.org>

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 9046-10-0 Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

LC50 (48 h)	418 mg/L (Daphnia)
LC50 (96 h)	772 mg/L (Fish)
EC50 (72 h)	142 mg/L (Algae)

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

LC50 (96 h)	718 mg/L (Daphnia)
	175 mg/L (Fish)
EC50 (72 h)	84 mg/L (Algae)
NOEC - No observed effect concentration	6.25 mg/l (Algae)
	72 h

CAS: 140-31-8 2-piperazin-1-ylethylamine

LC50 (96 h)	368 mg/L (Fish)
EC50 (48 h)	58 mg/L (Daphnia)
EC50 (72 h)	>1,000 mg/L (Algae)
NOEC - No observed effect concentration	31 mg/l (Algae)
	72 h

- **12.2 Persistence and degradability**

CAS: 9046-10-0 Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia

Biodegradability	0 % (Experimental) (OECD 301B)
	28 d

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

Biodegradability | 4 % (OECD 301D)

CAS: 140-31-8 2-piperazin-1-ylethylamineBiodegradability | 0 % (OECD 301C)
28 d· **12.3 Bioaccumulative potential****CAS: 9046-10-0 Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia**

log Pow | 1.34 (Experimental)

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

log Pow | 0.66

CAS: 140-31-8 2-piperazin-1-ylethylamine

log Pow | 0.3

· **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**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**· **Remark:**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
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08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
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08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
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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)
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20 01 27*	paint, inks, adhesives and resins containing hazardous substances
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- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
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 or ID number · ADR, IMDG, IATA 	UN3259
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA 	3259 AMINES, SOLID, CORROSIVE, N.O.S. (3,3'-oxybis(ethyleneoxy)bis(propylamine), N-AMINOETHYLPIPERAZINE) AMINES, SOLID, CORROSIVE, N.O.S. (3,3'-oxybis(ethyleneoxy)bis(propylamine), N-AMINOETHYLPIPERAZINE)
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR · Class · ADN/R Class: 	8 Corrosive substances. Not regulated
<ul style="list-style-type: none"> · IMDG, IATA · Class · Label 	8 Corrosive substances. 8
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	II
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · 14.6 Special precautions for user · EMS Number: · Stowage Category · Segregation Code 	Warning: Corrosive substances. F-A,S-B A SG35 Stow "separated from" SGG1-acids
<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR · Limited quantities (LQ) · Excepted quantities (EQ) 	1 kg Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> · Tunnel restriction code 	DE
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) 	1 kg

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· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (3 , 3 ' - O X Y B I S (E T H Y L E N E O X Y) B I S (P R O P Y L A M I N E) , N - AMINOETHYLPIPERAZINE), 8, II

SECTION 15: Regulatory information

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

EU Regulation (EC) no.1907/2006 (REACH)

EU regulation (EC) no 1272/2008 (CLP)

EC DIRECTIVE 2008/98/EC (waste)

· **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.

· **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.

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

Relevant phrases

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

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

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• **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

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

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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