

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2017



Version 3

Reviewed on 01/30/2017

1 Identification

- **Product identifier**
- **Trade name: GC11A**
- **Article number:** 3350100004A
- **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 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 Corr. 1B 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.
- **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:**
3,3'-oxybis(ethyleneoxy)bis(propylamine)
2-piperazin-1-ylethylamine
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
- **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/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/.

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- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- **Other hazards** Contains 1-piperazinethanamine. May produce an allergic reaction.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**
Mixture: consisting of the following components.

CAS: 67762-90-7	Dimethyl siloxane, reaction product with silicon oxide	2.5-<10%
· Dangerous components:		
CAS: 1332-58-7	Kaolin	25-50%
CAS: 4246-51-9	3,3'-oxybis(ethyleneoxy)bis(propylamine) Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317	25-50%
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤10%
CAS: 140-31-8	2-piperazin-1-ylethylamine Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Flam. Liq. 4, H227	0.1-<1%

4 First-aid measures

- **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 in case of complaints.
- **After skin contact:** Rinse with water for a longer time.
- **After eye contact:**
IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
Immediately call a doctor.
- **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:**
Use fire fighting measures that suit the environment.

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Water

Foam

· Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

CO₂Nitrogen oxides (NO_x)**· Advice for firefighters****· Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Do not breathe vapour.

Wear protective equipment. Keep unprotected persons away.

Do not get in eyes, on skin, or on clothing.

Ensure adequate ventilation

· 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.

· Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable receptacles.

· 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.

7 Handling and storage

· Handling:**· Precautions for safe handling**

When using do not eat, drink or smoke.

Avoid contact with skin and eyes.

Do not breathe vapour.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

· 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 oxidizing agents.

· Further information about storage conditions: None.**· Specific end use(s)** Adhesives

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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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

CAS: 1332-58-7 Kaolin

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 2* mg/m ³ E; as respirable fraction

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.
Ensure that washing facilities are available at the work place.
- **Breathing equipment:**
Filter P2
Filter P3



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves** Butyl rubber, BR
- **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

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- **Body protection:** Full protective clothing

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

- **Form:** Highly viscous

- **Color:** Whitish

- **Odor:** Amine-like

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

- **Melting point/Melting range:** Undetermined.

- **Boiling point/Boiling range:** Undetermined.

- **Flash point:** > 150 °C (> 302 °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)** 1.31 g/cm³ (10.932 lbs/gal)

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

- **Water:** Slightly soluble.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

- **Dynamic at 20 °C (68 °F):** 0.6 mPas

- **Kinematic:** Not determined.

- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**

This product can be reactive with certain compounds under some circumstances - please see headings in this section.

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- **Chemical stability** Stable at ambient temperature.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**
Keep away from heat.
Avoid hardening of large quantities in order to prevent premature reaction (exotherm) with high heat and smoke.
- **Incompatible materials:**
Store away from oxidizing agents.
Keep away from acids.
- **Hazardous decomposition products:**
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide
Nitrogen oxides

11 Toxicological information

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

Dermal	NOAEL	125 mg/kg (rat) (28 days)
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CAS: 140-31-8 2-piperazin-1-ylethylamine

Oral	NOAEL	409 mg/kg (rat) (32 days)
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Information on toxicological effects

Product, calculated ATE (dermal): 2000 - 3000 mg/kg

Product, calculated ATE (oral): > 5000 mg/kg

Acute toxicity:
CAS: 1332-58-7 Kaolin

Oral	LD50	>15000 mg/kg (Worker)
------	------	-----------------------

CAS: 4246-51-9 3,3'-oxybis(ethyleneoxy)bis(propylamine)

Oral	LD50	3160 mg/kg (rat)
Dermal	LD50	2500 mg/kg (rabbit)

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

Oral	LD50	1000 mg/kg (rat)
Dermal	LD50	1280 mg/kg (rat)

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

Oral	LD50	1470 mg/kg (rat)
Dermal	LD50	880 mg/kg (rabbit)

Primary irritant effect:

- **on the skin:** Caustic effect on skin and mucous membranes.

- **on the eye:**

Causes burns.

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:

Corrosive

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- **Carcinogenic categories**

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

None of the ingredients is listed.

- **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: 4246-51-9 3,3'-oxybis(ethyleneoxy)bis(propylamine)

LC50 | 220 mg/L (Fish) (96h)

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

LC50 | 175 mg/L (Fish) (experimental 96 hours)

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

LC50 | >100 mg/L (Salmon trout) (Experimental)

- **Aquatic toxicity:**

CAS: 4246-51-9 3,3'-oxybis(ethyleneoxy)bis(propylamine)

EC50 | 69 mg/L (Algae) (72h)

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

EC50 | >1000 mg/L (Algae) (experimental)

- **Persistence and degradability**

CAS: 4246-51-9 3,3'-oxybis(ethyleneoxy)bis(propylamine)

Biodegradability | 12.6 weight % (No information available) (OECD 301C - MITI (I))

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

Biodegradability | 4 weight % (No information available) (Experimental)

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

Biodegradability | 0 % (No information available) (OECD 301C - MITI (1))

- **Behavior in environmental systems:**

- **Bioaccumulative potential**

CAS: 4246-51-9 3,3'-oxybis(ethyleneoxy)bis(propylamine)

Bioaccumulation factor | -1.46 (No information available) (calculated bioconcentration)

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

Bioaccumulation factor | -066 (No information available) (Experimental biokoncentration)

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

Bioaccumulation factor | 0.3 (No information available) (experimental bioconcentration)

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

- **Ecotoxicological effects:**

- **Remark:**

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

Toxic for fish

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

14 Transport information

· UN-Number	
· ADR, IMDG, IATA	UN3259
· UN proper shipping name	
· ADR	3259 Amines, solid, corrosive, n.o.s. (3,3'-oxybis(ethyleneoxy)bis(propylamine), N-Aminoethylpiperazine)
· IMDG, IATA	AMINES, SOLID, CORROSIVE, N.O.S. (3,3'-oxybis(ethyleneoxy)bis(propylamine), N-AMINOETHYLPIPERAZINE)
· Transport hazard class(es)	
· DOT	
	
· Label	8
· ADR	
	
· Class	8 Corrosive substances

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· **IMDG, IATA**



· **Class** 8 Corrosive substances
· **Label** 8

· **Packing group**
· **ADR, IMDG, IATA** II

· **Environmental hazards:**
· **Marine pollutant:** No

· **Special precautions for user** Warning: Corrosive substances
· **EMS Number:** FA, FB
· **Stowage Category** A
· **Segregation Code** SG35 Stow "separated from" acids.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**
· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **IMDG**
· **Limited quantities (LQ)** 1 kg
· **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

15 Regulatory information

· **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)

· **Sara**

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight \leq 700)
CAS: 1317-65-3	Calcium carbonate

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **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.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **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:**

3,3'-oxybis(ethyleneoxy)bis(propylamine)
2-piperazin-1-ylethylamine

· **Hazard statements**

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

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

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Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

LIMITATION OF LIABILITY

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

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

- **Department issuing SDS:** MACC -Materials & Chemistry Centre

- **Contact:**

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

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Argentina: alfa.consulta@alfalaval.com
Australia: australia.info@alfalaval.com
Austria: info.mideurope@alfalaval.com
Belgium: benelux.info@alfalaval.com
Bolivia: alfa.consulta@alfalaval.com
Brazil: alfalaval.br@alfalaval.com
Bulgaria: bulgaria.info@alfalaval.com
Canada: alfacan.info@alfalaval.com
Chile: chile.informacion@alfalaval.com
China: china.info@alfalaval.com
Colombia: info.colombia@alfalaval.com
Croatia: hrvatska.info@alfalaval.com
Czech Republic: czechrepublic.info@alfalaval.com
Denmark: info.nordic.dk@alfalaval.com
Egypt: alme.marketing@alfalaval.com
Estonia: estonia.info@alfalaval.com
Finland: info.fi@alfalaval.com
France: environnement@alfalaval.com
Germany: info.mideurope@alfalaval.com
Greece: greece.info@alfalaval.com
Hungary: info.hu@alfalaval.com
India: india.info@alfalaval.com
Indonesia: alfalindo@alfalaval.com
Israel: israel.info@alfalaval.com
Italy: alfalaval.italia@alfalaval.com
Latvia: latvia.info@alfalaval.com
Lithuania: lithuania.info@alfalaval.com
Malaysia: malaysia.info@alfalaval.com
Mexico: mexico.info@alfalaval.com
The Netherlands: benelux.info@alfalaval.com
New Zealand: newzealand.info@alfalaval.com
Norway: info.no@alfalaval.com
Peru: ventas.peru@alfalaval.com
Philippines: philippines.info@alfalaval.com
Poland: poland.info@alfalaval.com
Portugal: portugal.info@alfalaval.com
Qatar: alme.marketing@alfalaval.com
Romania: romania.info@alfalaval.com
Russia: moscow.response@alfalaval.com
Singapore: al.singapore@alfalaval.com
Slovak Republic: slovakia.info@alfalaval.com
Slovenia: slovenija.info@alfalaval.com
South Africa: info.sa@alfalaval.com
Spain: info.spain@alfalaval.com
Sweden: info.se@alfalaval.com
Switzerland: info.mideurope@alfalaval.com
Taiwan: taiwan.info@alfalaval.com
Thailand: thailand.info@alfalaval.com
Turkey: turkey@alfalaval.com
Ukraine: ukraine.info@alfalaval.com
United Arab Emirates: alme.marketing@alfalaval.com
United Kingdom: general.uk@alfalaval.com
United States: customerservice.usa@alfalaval.com
Venezuela: venezuela.info@alfalaval.com

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Vietnam: vietnam.info@alfalaval.com

· **Date of preparation / last revision 01/30/2017 / 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

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 4: Acute toxicity – Category 4

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

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.**

US