



## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

### 1 Identification

- **Product identifier**
- **Trade name: GC6A**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **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  
Australian supplier:  
Alfa Laval Australia Pty Ltd  
Locked Bag 40, Blacktown Business Centre  
NSW - NSW-2148 Blacktown  
Australia  
Visit: 14 Healey Circuit, - NSW - NSW-2148 Huntingwood  
Tel switchboard: +61 2 8822 2700 - Fax switchboard: +61 2 8822 2799  
www.alfalaval.com.au  
australia.info@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](http://www.alfalaval.com) or in section 16 "Other Information" in the end of the safety data sheet
- **Emergency telephone number:**  
Call 000 or 112 and ask for poison information.  
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.

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**  
Flam. Liq. 2 H225 Highly flammable liquid and vapour.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Muta. 2 H341 Suspected of causing genetic defects.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

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· **Label elements**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

(Contd. on page 2)

## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

**Trade name: GC6A**

(Contd. of page 1)

**Hazard pictograms**

**Signal word** Danger

**Hazard-determining components of labelling:**

formaldehyde, oligomeric reaction products with phenol  
toluene  
phenol

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P260 Do not breathe vapours.  
P280 Wear protective gloves.  
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:**

21 % of the mixture consists of component(s) of unknown toxicity.

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

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

**Chemical characterisation: Mixtures**
**Description:**

CAS: 68648-78-2   Polyvinyl Butyral	10-25%
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**Dangerous components:**

CAS: 64-17-5	ethanol Flam. Liq. 2, H225	25-100%
CAS: 9003-35-4	formaldehyde, oligomeric reaction products with phenol Skin Sens. 1, H317	0-25%
CAS: 108-88-3	toluene Flam. Liq. 2, H225; Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-15%
CAS: 108-95-2	phenol Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; STOT RE 2, H373; Skin Corr. 1B, H314	2.5-10%

(Contd. on page 3)



## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

**Trade name: GC6A**

(Contd. of page 2)

CAS: 67-63-0	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	0-≤2.5%
CAS: 78-93-3	butanone Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336	0-≤2.5%

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

### 4 First Aid Measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing.

If symptoms persist consult doctor.

· **After eye contact:**

Flush eyes with lukewarm water for 10-15 minutes. Transport the exposed person to hospital or an eye specialist. Continue rinsing eyes during transport.

Remove contact lenses, if present and easy to do. Continue rinsing.

· **After swallowing:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** Refer to section 11.1

· **Hazards**

Product contains chemical(s) which can cause damage to the unborn child, or other reproduction damages

· **Indication of any immediate medical attention and special treatment needed**

This product contain methanol. Methanol poisoning can cause matabolic acidose, blindness or death. The symptoms can be delayed for 18 to 24 hours.

### 5 Fire Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Carbon dioxide

Fire-extinguishing powder

· **Special hazards arising from the substance or mixture**

No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

-AU-

(Contd. on page 4)



## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

**Trade name: GC6A**

(Contd. of page 3)

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Absorb liquid components with liquid-binding material.

Use only non-sparking tools.

Wear protective equipment. Keep unprotected persons away.

Do not breathe vapour.

- **Environmental precautions:**

Keep contaminated washing water and dispose of appropriately.

Do not flush with water or aqueous cleansing agents

Send for recovery or disposal in suitable receptacles.

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.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

- **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**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Avoid contact with skin.

Handle and open container with care.

Do not breathe vapour.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

When using do not eat, drink or smoke.

See Section 8 for information on personal protection equipment.

Use only non-sparking tools.

- **Information about fire - and explosion protection:**

Wear shoes with conductive soles.

Use explosion-proof apparatus / fittings and spark-proof tools.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Highly flammable.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store in a well-ventilated place. Keep cool.

Protect from sunlight.

(Contd. on page 5)



## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

Trade name: GC6A

(Contd. of page 4)

- **Information about storage in one common storage facility:**  
Store away from oxidising agents.  
Do not store together with acids.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** Adhesives

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

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

<b>CAS: 64-17-5 ethanol</b>	
WES	Long-term value: 1880 mg/m <sup>3</sup> , 1000 ppm
<b>CAS: 108-88-3 toluene</b>	
WES	Short-term value: 574 mg/m <sup>3</sup> , 150 ppm Long-term value: 191 mg/m <sup>3</sup> , 50 ppm Sk
<b>CAS: 108-95-2 phenol</b>	
WES	Long-term value: 4 mg/m <sup>3</sup> , 1 ppm Sk
<b>CAS: 67-63-0 propan-2-ol</b>	
WES	Short-term value: 1230 mg/m <sup>3</sup> , 500 ppm Long-term value: 983 mg/m <sup>3</sup> , 400 ppm
<b>CAS: 78-93-3 butanone</b>	
WES	Short-term value: 890 mg/m <sup>3</sup> , 300 ppm Long-term value: 445 mg/m <sup>3</sup> , 150 ppm

- **DNELs**

108-88-3 Toluene: Hazard via inhalation route: Long time exposure: 192 mg/m<sup>3</sup>; Acute/short term exposure: 384 mg/m<sup>3</sup>.

108-95-2 Phenol: Hazard via inhalation route: Long time exposure: 8 mg/m<sup>3</sup>, Acute/short time exposure: 16 mg/m<sup>3</sup>.

67-56-1 Methanol: Hazard via inhalation route: Long time exposure: 260 mg/m<sup>3</sup>, Acute/short time exposure: 260 mg/m<sup>3</sup>.

64-17-5 Ethanol: Hazard via inhalation route: Long time exposure: 950 mg/m<sup>3</sup>, Acute/short time exposure: No-threshold effect and/or no dose-response information available.

<b>CAS: 78-93-3 butanone</b>		
Dermal	DNEL: Long term systemic effects	1,161 mg/kg/day (Worker)
Inhalative	DNEL: Long term exposure systemic	600 mg/kg/day (Worker)

- **PNECs**

64-17-5 Ethanol: Aqua (freshwater): 0.96 mg/L, Assessment factor: 10, Extrapolation method: Assessment factor.

108-88-3 Toluene: Aqua (freshwater): 0.68 mg/L, Assessment factor: 1, Extrapolation method: Statistical extrapolation.

(Contd. on page 6)

-AU-

## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

**Trade name: GC6A**

(Contd. of page 5)

108-95-2 Phenol: Aqua (freshwater): 0.0077 mg/L, Assessment factor: 10, Extrapolation method: Assessment factor.

67-56-1 Methanol: Aqua (freshwater): 154 mg/L, Assessment factor: 100, Extrapolation method: Assessment factor.

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

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Ensure that washing facilities are available at the work place.

Ground/bond container and receiving equipment.

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.

· **Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Check protective gloves prior to each use for their proper condition.



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

Fluorocarbon rubber (Viton)

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:** Use protective suit.

· **Limitation and supervision of exposure into the environment**

Keep contaminated washing water and dispose of appropriately.

Do not flush with water or aqueous cleansing agents

Send for recovery or disposal in suitable receptacles.

(Contd. on page 7)



## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

Trade name: GC6A

(Contd. of page 6)

Do not allow to enter sewers/ surface or ground water.

### 9 Physical and Chemical Properties

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

##### · General Information

##### · Appearance:

· Form:	Fluid
· Colour:	Yellow-brown
· Odour:	Phenol-like
· Odour threshold:	Not determined.

· pH-value: Not determined.

##### · Change in condition

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	>55 °C

· Flash point: 4 °C

· Flammability (solid, gas): Not applicable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Not determined.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

##### · Explosion limits:

· Lower:	1.2 Vol %
· Upper:	15 Vol %

· Vapour pressure at 20 °C: 59 hPa

· Density at 20 °C: 0.93 g/cm<sup>3</sup>

· Relative density at 20 °C: 0.9-0.95 g/cm<sup>3</sup>

· Vapour density: Not determined.

· Evaporation rate: Not determined.

##### · Solubility in / Miscibility with water:

Insoluble.

· Partition coefficient: n-octanol/water: Not determined.

##### · Viscosity:

· Dynamic at 20 °C:	27,000-79,000 mPas
· Kinematic:	Not determined.

##### · Solvent content:

· Organic solvents:	40.7-≤78.7 %
· VOC (EC)	65.00 %

(Contd. on page 8)

## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

**Trade name: GC6A**

(Contd. of page 7)

- |                          |  |
|--------------------------|--|
| <b>Other information</b> | Volatile organic compounds:<br>495 - 617 g/l<br>Volatile Compounds:<br>55 - 65 % |
|--------------------------|--|

### 10 Stability and Reactivity

- **Reactivity**  
This product can be reactive with certain compounds under some circumstances - please see headings in this section.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Take precautionary measures against static discharge.  
Do not store together with acids.  
Store away from oxidising agents.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Formation of toxic gases is possible during heating or in case of fire.  
Aldehyde  
Irritant gases/vapours  
Hydrocarbons  
Carbon monoxide and carbon dioxide

### 11 Toxicological Information

- **Information on toxicological effects**

- **Acute toxicity**

**CAS: 64-17-5 ethanol**

Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

**CAS: 108-88-3 toluene**

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

**CAS: 108-95-2 phenol**

Oral	LD50	317 mg/kg (rat)
Dermal	LD50	850 mg/kg (rabbit)
	LDLo	630 mg/kg (rabbit) (LD50)

**CAS: 67-63-0 propan-2-ol**

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)

(Contd. on page 9)

## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

**Trade name: GC6A**

(Contd. of page 8)

Inhalative	LC50/4 h	30 mg/l (rat)
<b>CAS: 78-93-3 butanone</b>		
Oral	LD50	3,300 mg/kg (rat)
	LDLo	2,740 mg/kg (rat)
Dermal	LDLo	6,480 mg/kg (rabbit) (LD50)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant to skin and mucous membranes.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation**  
The product contains one or more allergens.  
Sensitisation possible through skin contact.
- **Additional toxicological information:**  
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- **Sensitisation** The product contains one or more allergenic compounds.
- **Repeated dose toxicity**  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
The product contains one or more compounds that may be carcinogenic.  
Muta. 2, Repr. 2

### 12 Ecological Information

- **Toxicity**  
No test data available for the product.

**CAS: 108-95-2 phenol**

LC50 | 0.00175-67.5 mg/L (Fish) (96 h.)

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** Contact your supplier for more information.
- **Mobility in soil** Contact your supplier for more information.
- **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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

Trade name: GC6A

(Contd. of page 9)

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### 14 Transport information

· <b>UN-Number</b>	UN1133
· <b>ADG, IMDG, IATA</b>	UN1133
· <b>UN proper shipping name</b>	1133 ADHESIVES, containing flammable liquid, ENVIRONMENTALLY HAZARDOUS
· <b>ADG</b>	ADHESIVES, containing flammable liquid (PHENOL, 1,4-dihydroxybenzene), MARINE POLLUTANT
· <b>IMDG</b>	ADHESIVES, containing flammable liquid
· <b>IATA</b>	ADHESIVES, containing flammable liquid
· <b>Transport hazard class(es)</b>	
· <b>ADG, IMDG</b>	
 	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>Packing group</b>	II
· <b>ADG, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: phenol
· <b>Marine pollutant:</b>	No
· <b>Special marking (ADG):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Flammable liquids.
· <b>Danger code (Kemler):</b>	33
· <b>EMS Number:</b>	F-E,S-D

(Contd. on page 11)



## Safety Data Sheet

### according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

Trade name: GC6A

(Contd. of page 10)

· <b>Stowage Category</b>	B
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
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· <b>ADG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
-----	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1133 ADHESIVES, CONTAINING FLAMMABLE LIQUID, 3, II, ENVIRONMENTALLY HAZARDOUS

### 15 Regulatory information

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

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

· **Australian Inventory of Chemical Substances**

CAS: 64-17-5	ethanol
CAS: 9003-35-4	formaldehyde, oligomeric reaction products with phenol
CAS: 108-88-3	toluene
CAS: 108-95-2	phenol
CAS: 67-56-1	methanol
CAS: 78-93-3	butanone
CAS: 67-63-0	propan-2-ol
CAS: 50-00-0	formaldehyde
CAS: 123-31-9	1,4-dihydroxybenzene

· **Standard for the Uniform Scheduling of Medicines and Poisons**

CAS: 108-88-3	toluene	S6
CAS: 108-95-2	phenol	S2, S4, S5, S6
CAS: 67-56-1	methanol	S5, S6
CAS: 78-93-3	butanone	S5
CAS: 50-00-0	formaldehyde	S2 +APPENDIX C, S6+APPENDIX C
CAS: 123-31-9	1,4-dihydroxybenzene	S2, S4, S6

(Contd. on page 12)

## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

**Trade name: GC6A**

(Contd. of page 11)

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



· **Signal word** Danger

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

formaldehyde, oligomeric reaction products with phenol  
toluene  
phenol

· **Hazard statements**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P260 Do not breathe vapours.  
P280 Wear protective gloves.  
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.

· **Directive 2012/18/EU**

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **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:

(Contd. on page 13)



## Safety Data Sheet according to WHS Regulations

Printing date 18.09.2019

Version number 14

Revision: 18.09.2019

**Trade name: GC6A**

(Contd. of page 12)

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**Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- 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.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

**Department issuing SDS:** Alfa Laval Corporate Standards & Regulatory Operations**Contact:**

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(Contd. on page 14)



## Safety Data Sheet according to WHS Regulations

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(Contd. of page 13)

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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  
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)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 2: Germ cell mutagenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1

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