

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 09/18/2019

Version 14

Reviewed on 09/18/2019

### 1 Identification

- **Product identifier**
- **Trade name: GC6A**
- **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](http://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**  
Flam. Liq. 2 H225 Highly flammable liquid and vapor.  
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 labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



- **Signal word** Danger

- **Hazard-determining components of labeling:**

formaldehyde, oligomeric reaction products with phenol  
toluene  
phenol

- **Hazard statements**

H225 Highly flammable liquid and vapor.  
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.

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- **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/information on ingredients

- **Chemical characterization: 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%
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%

### 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 in case of complaints.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing.

If symptoms persist consult doctor.

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- **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
- **Danger**  
Contains chemical(s) which can cause damages 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.

### 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

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

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

#### CAS: 64-17-5 ethanol

PEL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm

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TLV	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm
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**CAS: 108-88-3 toluene**

PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 75 mg/m <sup>3</sup> , 20 ppm BEI

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

PEL	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin
REL	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Ceiling limit value: 60* mg/m <sup>3</sup> , 15.6* ppm *15-min; Skin
TLV	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin; BEI

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

PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI

**CAS: 78-93-3 butanone**

PEL	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm BEI

**· Ingredients with biological limit values:**

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

BEI	<p>0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene</p> <p>0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene</p> <p>0.3 mg/g creatinine Medium: urine</p>	
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	Time: end of shift Parameter: o-Cresol with hydrolysis (background)	
<b>CAS: 108-95-2 phenol</b>		
BEI	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)	
<b>CAS: 67-63-0 propan-2-ol</b>		
BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)	
<b>CAS: 78-93-3 butanone</b>		
BEI	2 mg/L Medium: urine Time: end of shift Parameter: MEK	
<b>CAS: 108-88-3 toluene</b>		
BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene	
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene	
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)	
<b>CAS: 108-95-2 phenol</b>		
BEI	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)	
<b>CAS: 67-63-0 propan-2-ol</b>		
BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)	
<b>CAS: 78-93-3 butanone</b>		
BEI	2 mg/L Medium: urine Time: end of shift Parameter: MEK	

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

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- **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.

- **Breathing equipment:**



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:**

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

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### 9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form:	Fluid
Color:	Yellow-brown
· Odor:	Phenol-like
· Odor threshold:	Not determined.

- pH-value: Not determined.

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>55 °C (>131 °F)

- Flash point: 4 °C (39.2 °F)

- Flammability (solid, gaseous): Not applicable.

- Decomposition temperature: Not determined.

- Auto igniting: Not determined.

- Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

Lower:	1.2 Vol %
Upper:	15 Vol %

- Vapor pressure at 20 °C (68 °F): 59 hPa (44.3 mm Hg)

- Density at 20 °C (68 °F): 0.93 g/cm<sup>3</sup> (7.76085 lbs/gal)

- Relative density at 20 °C (68 °F): 0.9-0.95 g/cm<sup>3</sup> (7.5105-7.92775 lbs/gal)

- Vapor 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 (68 °F):	27,000-79,000 mPas
Kinematic:	Not determined.

- **Solvent content:**

- Organic solvents: 40.7-≤78.7 %

- VOC content: 40.73-≤78.73 %

- **Other information**

Volatile organic compounds:  
 495 - 617 g/l  
 Volative compounds:  
 55 - 65 %

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### 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 oxidizing 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/vapors

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)
Inhalative	LC50/4 h	30 mg/l (rat)

**CAS: 78-93-3 butanone**

Oral	LD50	3,300 mg/kg (rat)
	LDLo	2,740 mg/kg (rat)
Dermal	LDLo	6,480 mg/kg (rabbit) (LD50)

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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**  
The product contains one or more allergens.  
Sensitization 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 internally approved calculation methods for preparations:  
Harmful  
Irritant  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.

- **Carcinogenic categories**

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

CAS: 64-17-5	ethanol	1
CAS: 108-88-3	toluene	3
CAS: 108-95-2	phenol	3
CAS: 67-63-0	propan-2-ol	3
CAS: 50-00-0	formaldehyde	1
CAS: 123-31-9	1,4-dihydroxybenzene	3

- **NTP (National Toxicology Program)**

CAS: 50-00-0	formaldehyde	K
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- **OSHA-Ca (Occupational Safety & Health Administration)**

CAS: 50-00-0	formaldehyde	
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### 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.)
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- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior 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 (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.

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· **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:**

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

### 14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA**

UN1133

· **UN proper shipping name**

· **DOT**

Adhesives

· **ADR**

1133 ADHESIVES, containing flammable liquid, ENVIRONMENTALLY HAZARDOUS

· **IMDG**

ADHESIVES, containing flammable liquid (PHENOL, 1,4-dihydroxybenzene), MARINE POLLUTANT

· **IATA**

ADHESIVES, containing flammable liquid

· **Transport hazard class(es)**

· **DOT**



· **Class**

3 Flammable liquids

· **Label**

3

· **ADR, IMDG**



· **Class**

3 Flammable liquids

· **Label**

3

· **IATA**



· **Class**

3 Flammable liquids

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· <b>Label</b>	3
· <b>Packing group</b> · <b>DOT, ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: phenol
· <b>Marine pollutant:</b>	No Symbol (fish and tree)
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Flammable liquids 33 F-E,S-D B
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b> · <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· <b>ADR</b> · <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L 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)

· **Sara**

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

CAS: 108-95-2	phenol
CAS: 50-00-0	formaldehyde
CAS: 123-31-9	1,4-dihydroxybenzene

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

CAS: 108-88-3	toluene
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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

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

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

**· Proposition 65**

**· Chemicals known to cause cancer:**

CAS: 50-00-0	formaldehyde
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**· Chemicals known to cause reproductive toxicity for females:**

CAS: 108-88-3	toluene
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**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

CAS: 64-17-5	ethanol
CAS: 108-88-3	toluene
CAS: 67-56-1	methanol

**· Carcinogenic categories**

**· EPA (Environmental Protection Agency)**

CAS: 108-88-3	toluene	II
CAS: 108-95-2	phenol	D, I
CAS: 78-93-3	butanone	I
CAS: 50-00-0	formaldehyde	B1

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

CAS: 64-17-5	ethanol	A3
CAS: 108-88-3	toluene	A4
CAS: 108-95-2	phenol	A4
CAS: 67-63-0	propan-2-ol	A4
CAS: 50-00-0	formaldehyde	A2
CAS: 123-31-9	1,4-dihydroxybenzene	A3

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

CAS: 50-00-0 formaldehyde

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



· **Signal word** Danger

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

formaldehyde, oligomeric reaction products with phenol  
toluene  
phenol

· **Hazard statements**

H225 Highly flammable liquid and vapor.  
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.

· **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:

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• **Date of preparation / last revision** 09/18/2019 / 13• **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)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

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.**

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