

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

## 1 Identification

- **Product identifier**
- **Trade name:** **GC6C**
- **Article number:** 3222030556
- **Application of the substance / the mixture** Glue/ Sizing agent
- **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 Information
- **Emergency telephone number:**  
Call CHEMTREC  
+1 703-741-5970 / 1-800-424-9300 CCN 844

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Liq. 2 H225 Highly flammable liquid and vapor.  
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.  
Muta. 2 H341 Suspected of causing genetic defects.  
Carc. 1B H350 May cause cancer.  
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.

- **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  
formaldehyde
- **Hazard statements**  
H225 Highly flammable liquid and vapor.  
H314 Causes severe skin burns and eye damage.

(Contd. on page 2)



## Safety Data Sheet

### acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

**Trade name: GC6C**

(Contd. of page 1)

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

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 dust/fume/gas/mist/vapors/spray.

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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 9003-35-4	formaldehyde, oligomeric reaction products with phenol Skin Sens. 1, H317	25-<50%
CAS: 64-17-5	ethanol Flam. Liq. 2, H225	20-<30%
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	10-<20%
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	3-<5%
CAS: 67-56-1	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	1-<3%
CAS: 50-00-0	formaldehyde Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; Carc. 1B, H350; Skin Corr. 1B, H314; Skin Sens. 1, H317; Flam. Liq. 4, H227	0.25-<1%

### 4 First-aid measures

- **Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)



## Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

**Trade name: GC6C**

(Contd. of page 2)

- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If symptoms persist consult doctor.
- **After eye contact:**  
Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Get medical advice/attention.
- **After swallowing:**  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
Contact a doctor
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **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.  
Carbon dioxide  
Sand  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Do not breathe vapour.  
Do not get in eyes, on skin, or on clothing.  
Keep away from ignition sources  
Ensure adequate ventilation  
Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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.

(Contd. on page 4)



## Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

**Trade name: GC6C**

(Contd. of page 3)

### · Protective Action Criteria for Chemicals

#### · PAC-1:

CAS: 64-17-5	ethanol	1,800 ppm
CAS: 108-88-3	toluene	67 ppm
CAS: 108-95-2	phenol	15 ppm
CAS: 67-56-1	methanol	530 ppm
CAS: 50-00-0	formaldehyde	0.90 ppm

#### · PAC-2:

CAS: 64-17-5	ethanol	3300* ppm
CAS: 108-88-3	toluene	560 ppm
CAS: 108-95-2	phenol	23 ppm
CAS: 67-56-1	methanol	2,100 ppm
CAS: 50-00-0	formaldehyde	14 ppm

#### · PAC-3:

CAS: 64-17-5	ethanol	15000* ppm
CAS: 108-88-3	toluene	3700* ppm
CAS: 108-95-2	phenol	200 ppm
CAS: 67-56-1	methanol	7200* ppm
CAS: 50-00-0	formaldehyde	56 ppm

## 7 Handling and storage

### · Handling:

#### · Precautions for safe handling

Eye wash bottle or emergency eye wash fountain must be found in the work place

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

When using do not eat, drink or smoke.

See Section 8 for information on personal protection equipment.

Use only non-sparking tools.

Keep ignition sources away - Do not smoke.

Keep away from heat and direct sunlight.

Avoid contact with skin and eyes.

Do not breathe vapour.

Ensure that washing facilities are available at the work place.

#### · Information about protection against explosions and fires:

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Protect against electrostatic charges.

Keep respiratory protective device available.

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 container tightly closed.

#### · Information about storage in one common storage facility: See section 10 in the SDS

(Contd. on page 5)



## Safety Data Sheet

### acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

Trade name: GC6C

(Contd. of page 4)

- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.
- **Recommended storage temperature:** 35-104 °C
- **Specific end use(s)** Professional use only.

### 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 other constituents have no known exposure limits.

#### 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: 20 ppm BEI, NIC-OTO

#### 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: 67-56-1 methanol

PEL	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 325 mg/m <sup>3</sup> , 250 ppm Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin
TLV	Short-term value: 328 mg/m <sup>3</sup> , 250 ppm Long-term value: 262 mg/m <sup>3</sup> , 200 ppm Skin; BEI

#### CAS: 50-00-0 formaldehyde

PEL	Short-term value: 2 ppm Long-term value: 0.75 ppm see 29 CFR 1910.1048(c)
REL	Long-term value: 0.016 ppm Ceiling limit value: 0.1* ppm *15-min; See Pocket Guide App. A
TLV	Short-term value: 0.37 mg/m <sup>3</sup> , 0.3 ppm Long-term value: 0.12 mg/m <sup>3</sup> , 0.1 ppm DSEN; RSEN

(Contd. on page 6)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

Trade name: GC6C

(Contd. of page 5)

**Ingredients with biological limit values:****CAS: 108-88-3 toluene**

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)	

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

BEI	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)	
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**CAS: 67-56-1 methanol**

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)	
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**CAS: 108-88-3 toluene**

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)	

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

BEI	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)	
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(Contd. on page 7)

US

## Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

**Trade name: GC6C**

(Contd. of page 6)

**CAS: 67-56-1 methanol**

BEI	15 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Methanol (background, nonspecific)

· **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.

Immediately remove all soiled and contaminated clothing.

Eye wash bottle or emergency eye wash fountain must be found in the work place

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Use only in well-ventilated areas.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.



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

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**

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.

Butyl rubber, BR

Nitrile rubber, NBR

Ethyl Vinyl Alcohol Laminate (EVAL)

· **Penetration time of glove material**

EVAL: >8h

NBR: 10 -480 min

· **Eye protection:**



Safety glasses

· **Body protection:**



Protective work clothing

(Contd. on page 8)



## Safety Data Sheet

### acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

Trade name: GC6C

(Contd. of page 7)

- **Limitation and supervision of exposure into the environment**  
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
Color:	Brown
· Odor:	Characteristic

- pH-value: Not determined.

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>125 °C (>257 °F)

- Flash point: >1 °C (>33.8 °F) (ISO 2719, CLOSED CUP)

- Decomposition temperature: >200 C

- Auto igniting: Product is not selfigniting.

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

- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

- Oxidizing properties: Not applicable.

- Vapor pressure: Not determined.

- Density at 20 °C (68 °F): 1 g/cm<sup>3</sup> (8.345 lbs/gal)

- Relative density: Not determined.

- Vapor density: Not determined.

- Evaporation rate: Not determined.

- **Solubility in / Miscibility with**

- Water: Insoluble.

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

- **Viscosity:**

Dynamic:	1500 -3000 mPa s (25 C)
	Not determined.
Kinematic:	Not determined.

- **Solvent content:**

- VOC content: 40.70 %

- **Other information**

- No further relevant information available.

US

(Contd. on page 9)





## Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

Trade name: GC6C

(Contd. of page 8)

### 10 Stability and reactivity

- **Reactivity** The material is stable under recommended storage and handling conditions.
- **Chemical stability** Stable at ambient temperature.
- **Possibility of hazardous reactions**  
Forms explosive gas mixture with air.  
No further data; see item 7.
- **Conditions to avoid**  
High temperature  
Keep away from sources of ignition - No smoking.
- **Incompatible materials:**  
Do not store together with alkalis (caustic solutions).  
Reacts with strong oxidizing agents.
- **Hazardous decomposition products:**  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Poisonous gases/vapors

### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

Oral	Acute Oral Toxicity	>2,000 mg/kg (No information available)
Dermal	Acute Dermal Toxicity	>2,000 mg/kg (No information available)
Inhalative	Acute Inhalation toxicity	>20 mg/L (No)

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

Dermal	LDLo	630 mg/kg (Rabbit) (LD50)
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- **LD/LC50 values that are relevant for classification:**

- **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)

- **CAS: 67-56-1 methanol**

Oral	LD50	5,628 mg/kg (Rat)
Dermal	LD50	15,800 mg/kg (Rabbit)

- **CAS: 50-00-0 formaldehyde**

Oral	LD50	>200 mg/kg (Rat)
Dermal	LD50	270 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	470 mg/L (Rat)

(Contd. on page 10)



## Safety Data Sheet

### acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

**Trade name: GC6C**

(Contd. of page 9)

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

**CAS: 67-56-1 methanol**

Irritation of skin | Skin Corrosion/Irritation | (Rabbit)

- **on the eye:**  
Strong caustic effect.  
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:

Harmful  
Corrosive  
Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic.

**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: 50-00-0	formaldehyde	1

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

LC50 (48 h)	5.5 mg/L (Fish)
NOEC - No observed effect concentration	0.74 mg/l (Daphnia)

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

LC50 (48 h)	8.9 mg/L (REG) 0.00175-67.5 mg/L (Fish) (96 h.)
EC50 (48 h) (static)	3.1 mg/L (Daphnia)
NOEC - No observed effect concentration	0.077 mg/l (No information available)

**CAS: 67-56-1 methanol**

EC50 (static)	>10,000 mg/L (Daphnia)
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**CAS: 50-00-0 formaldehyde**

LC50 (48 h) (static)	6.7 mg/L (No information available)
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(Contd. on page 11)



## Safety Data Sheet

### acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

Trade name: GC6C

(Contd. of page 10)

EC50 (static)	5.8 mg/L (Daphnia)
<b>· Persistence and degradability</b>	
<b>CAS: 108-88-3 toluene</b>	
Biodegradability	81 % (No information available)
<b>CAS: 108-95-2 phenol</b>	
Biodegradability	62 % (No information available)
<b>CAS: 67-56-1 methanol</b>	
Biodegradability	69-97 % (No information available)
<b>CAS: 50-00-0 formaldehyde</b>	
Biodegradability	100 % (No information available)
<b>· Behavior in environmental systems:</b>	
<b>· Bioaccumulative potential</b>	
<b>CAS: 67-56-1 methanol</b>	
Bioconcentration factor	<10 (Fish)
<b>· Mobility in soil</b> No further relevant information available.	
<b>· Additional ecological information:</b>	
<b>· General notes:</b>	
Water hazard class 3 (Self-assessment): extremely hazardous for water	
Do not allow product to reach ground water, water course or sewage system, even in small quantities.	
Must not reach bodies of water or drainage ditch undiluted or unneutralized.	
Danger to drinking water if even extremely small quantities leak into the ground.	
<b>· Results of PBT and vPvB assessment</b>	
<b>· PBT:</b> The product is not, nor contains, a substance that is PBT	
<b>· vPvB:</b> The product is not, nor contains a substance that is, vPvB.	
<b>· Other adverse effects</b> 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.  
Hand over to hazardous waste disposers.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |                                  |                     |
|----------------------------------|---------------------|
| · <b>UN-Number</b>               |                     |
| · <b>DOT, ADR, IMDG, IATA</b>    | UN1866              |
| · <b>UN proper shipping name</b> |                     |
| · <b>DOT</b>                     | Resin solution      |
| · <b>ADR</b>                     | 1866 RESIN SOLUTION |
| · <b>IMDG, IATA</b>              | RESIN SOLUTION      |

(Contd. on page 12)

## Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

**Trade name: GC6C**

(Contd. of page 11)

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids  
· **Label** 3

· **ADR, IMDG, IATA**



· **Class** 3 Flammable liquids  
· **Label** 3

· **Packing group**

· **DOT, ADR, IMDG, IATA** II

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Flammable liquids

· **Hazard identification number (Kemler code):** 33

· **EMS Number:** F-E,S-E

· **Stowage Category** B

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

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations** On passenger aircraft/rail: 5 L  
On cargo aircraft only: 60 L

· **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)** 5L  
· **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 1866 RESIN SOLUTION, 3, II

US

(Contd. on page 13)



## Safety Data Sheet

### acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

Trade name: GC6C

(Contd. of page 12)

### 15 Regulatory information

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

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

TSCA (Toxic Substance Control Act) - All chemical components in this material are included in, or are exceptions from the TSCA listing.

AICS - FULFILS

ENCS - FULFILS

KECL - FULFILS

DSL/NDL - FULFILS

IECSC - FULFULS

PICCS - FULFILS

· **Sara**

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

CAS: 108-95-2 | phenol

CAS: 50-00-0 | formaldehyde

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

CAS: 108-88-3 | toluene

CAS: 108-95-2 | phenol

CAS: 67-56-1 | methanol

CAS: 50-00-0 | formaldehyde

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

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

CAS: 108-88-3 | toluene

CAS: 108-95-2 | phenol

CAS: 67-56-1 | methanol

CAS: 50-00-0 | formaldehyde

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 50-00-0 | formaldehyde

· **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:**

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

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CAS: 108-95-2 | phenol

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(Contd. on page 14)

## Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

**Trade name: GC6C**

(Contd. of page 13)

CAS: 50-00-0	formaldehyde	B1
<b>· TLV (Threshold Limit Value)</b>		
CAS: 64-17-5	ethanol	A3
CAS: 108-88-3	toluene	A4
CAS: 108-95-2	phenol	A4
CAS: 50-00-0	formaldehyde	A2

<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
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  
formaldehyde

**· Hazard statements**

H225 Highly flammable liquid and vapor.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
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 dust/fume/gas/mist/vapors/spray.  
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.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**· 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

(Contd. on page 15)



## Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

**Trade name: GC6C**

(Contd. of page 14)

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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(Contd. on page 16)



## Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2021

Version 2

Reviewed on 05/17/2021

**Trade name: GC6C**

(Contd. of page 15)

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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

DOT: US Department of Transportation

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 3: Acute toxicity – Category 3

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

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1B: Carcinogenicity – Category 1B

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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.**