

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

Printing date 10.05.2021

Version number 2

Revision: 10.05.2021

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

- **1.1 Product identifier**
- **Trade name:** **GC6C**
- **Article number:** 3222030556
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Adhesive
- **1.3 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
- **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
- **1.4 Emergency telephone number:**  
In Europe: Call 112 and ask for poison information  
U.S. emergency number: 911

### SECTION 2: Hazards identification

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

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
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	H361d	Suspected of damaging the unborn child.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

- **Signal word** Danger

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

formaldehyde, oligomeric reaction products with phenol  
phenol  
toluene  
formaldehyde

- **Hazard statements**

H225 Highly flammable liquid and vapour.  
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.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapours/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 [or 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.

- **Additional information:**

Restricted to professional users.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

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

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of 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 EINECS: 200-578-6	ethanol Flam. Liq. 2, H225	20-<30%
CAS: 108-88-3 EINECS: 203-625-9	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 3, H412	10-<20%
CAS: 108-95-2 EINECS: 203-632-7	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 EINECS: 200-659-6 Reg.nr.: 01-2119433307-44	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	1-<3%

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CAS: 50-00-0 EINECS: 200-001-8	formaldehyde	(Contd. of page 2) 0.25-<1%
	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	

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

### SECTION 4: First aid measures

- **4.1 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.
- **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:**  
Rinse the mouth with water.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions.  
Carbon dioxide  
Sand  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **5.3 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.

### SECTION 6: Accidental release measures

- **6.1 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.

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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.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **6.3 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.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

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

Ensure 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 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 fire - and explosion protection:**

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.

- **7.2 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

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

- **7.3 Specific end use(s)** Professional use only.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

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

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**· Ingredients with limit values that require monitoring at the workplace:**
**CAS: 108-88-3 toluene**

WEL	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm Long-term value: 191 mg/m <sup>3</sup> , 50 ppm Sk
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**CAS: 108-95-2 phenol**

WEL	Short-term value: 16 mg/m <sup>3</sup> , 4 ppm Long-term value: 7.8 mg/m <sup>3</sup> , 2 ppm Sk
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**CAS: 67-56-1 methanol**

WEL	Short-term value: 333 mg/m <sup>3</sup> , 250 ppm Long-term value: 266 mg/m <sup>3</sup> , 200 ppm Sk
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**CAS: 50-00-0 formaldehyde**

WEL	Short-term value: 2.5 mg/m <sup>3</sup> , 2 ppm Long-term value: 2.5 mg/m <sup>3</sup> , 2 ppm Carc
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**· DNELs**
**CAS: 108-88-3 toluene**

Oral	DNEL - Long term, Systemic effects	8.13 mg/kg bw/day (Consumer)
Dermal	DNEL - Long term, Systemic effects	384 mg/kg bw/day (Worker)
Inhalative	DNEL - Long term, Systemic effects	192 mg/m <sup>3</sup> (Worker)

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

Oral	DNEL - Long term, Systemic effects	0.4 mg/kg bw/day (Consumer)
Dermal	DNEL - Long term, Systemic effects	1.23 mg/kg bw/day (Worker)
Inhalative	DNEL - Long term, Systemic effects	8 mg/m <sup>3</sup> (Worker)

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

Oral	DNEL - Long term, Systemic effects	8 mg/kg bw/day (Consumer)
Dermal	DNEL - Long term, Systemic effects	40 mg/kg bw/day (Worker)
Inhalative	DNEL - Long term, Systemic effects	260 mg/m <sup>3</sup> (Worker)

**· PNECs**
**CAS: 108-88-3 toluene**

PNEC	0.68 mg/L (Freshwater) mg/L
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**CAS: 108-95-2 phenol**

PNEC	0.0077 mg/L (Freshwater) mg/L
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**CAS: 67-56-1 methanol**

PNEC	154 mg/L (Freshwater) mg/L
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· **Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls**
**· Personal protective equipment:**
**· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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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.

· **Respiratory protection:**

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 self-contained respiratory protective device.

· **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

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

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

### SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Brown

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· <b>Odour:</b>	Characteristic
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	>125 °C
· <b>Flash point:</b>	>1 °C (ISO 2719, CLOSED CUP)
· <b>Decomposition temperature:</b>	>200 C
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b> <b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidising properties</b>	Not applicable.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	1 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> <b>Dynamic:</b>	1500 -3000 mPa s (25 C)
	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** The material is stable under recommended storage and handling conditions.
- **10.2 Chemical stability**  
Stable under normal temperature conditions and under recommended usage and storage.
- **10.3 Possibility of hazardous reactions**  
Forms explosive gas mixture with air.  
No further data; see item 7.
- **10.4 Conditions to avoid**  
High temperature  
Keep away from sources of ignition - No smoking.
- **10.5 Incompatible materials:**  
Do not store together with alkalis (caustic solutions).  
Reacts with strong oxidising agents.
- **10.6 Hazardous decomposition products:**  
In case of fire, the following can be released:

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Nitrogen oxides (NO<sub>x</sub>)  
Poisonous gases/vapours

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### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

##### · Acute toxicity

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

##### CAS: 108-95-2 phenol

Dermal	LDLo	630 mg/kg (Rabbit) (LD50) Toxicological Data, compiled by the National Institute of Health (NIH), USA, selected and distributed by Technical Database Services (TDS), New York, 2009.
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##### · LD/LC50 values 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) Toxicological Data, compiled by the National Institute of Health (NIH), USA, selected and distributed by Technical Database Services (TDS), New York, 2009.
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)

##### · Primary irritant effect:

##### · Skin corrosion/irritation

##### CAS: 67-56-1 methanol

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

Causes serious eye damage.

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- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Muta. 2, Carc. 1B, Repr. 2
- **Germ cell mutagenicity**  
Suspected of causing genetic defects.
- **Carcinogenicity**  
May cause cancer.
- **Reproductive toxicity**  
Suspected of damaging the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

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

LC50 (48 h)	5.5 mg/L (Fish) Test type: Flow-through test Test substance: Fresh water Exposure time: 96h
NOEC - No observed effect concentration	0.74 mg/l (Daphnia) Exposure time: 7 d Test substance: fresh water Test method: EPA OTS 797.1330

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

LC50 (48 h)	8.9 mg/L (REG) Test type: Flow-through test Test substance: Fresh water
EC50 (48 h) (static)	0.00175-67.5 mg/L (Fish) (96 h.) 3.1 mg/L (Daphnia) Exposure time: 48h Method: EPA OTS 797.1300 Test substance: Fresh water
NOEC - No observed effect concentration	0.077 mg/l (No information available) Exposure time: 60 d Species: Other Test Type: semi-static test Test substance: Fresh water

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

EC50 (static)	>10,000 mg/L (Daphnia) Method: DIN 38412, exp time: 48 h, fresh water
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**Trade name: GC6C**

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

LC50 (48 h) (static)	6.7 mg/L (No information available) test substance; fresh water
EC50 (static)	5.8 mg/L (Daphnia) Test substance: fresh water Method: OECD Test Guidelline 202

**· 12.2 Persistence and degradability****CAS: 108-88-3 toluene**

Biodegradability	81 % (No information available) Inoculum: Sewage (STP effluent) Concentration: 10 mg/L Result: Readily biogradable Exposure time: 5 d
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**CAS: 108-95-2 phenol**

Biodegradability	62 % (No information available) Inoculum: Active sludge Concentration: 30 mg/L Result: Readily biodegradable. Exposure time: 4,16667 d Method: OECD Test Guideline 301C
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**CAS: 67-56-1 methanol**

Biodegradability	69-97 % (No information available) Inoculum: Marine water. Result: Readily biodegradable Exp time: 5-20 d
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**CAS: 50-00-0 formaldehyde**

Biodegradability	100 % (No information available) Inoculum: activated sludge Concentration: 1360 mg/L Exposure time: 4 d
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**· 12.3 Bioaccumulative potential****CAS: 67-56-1 methanol**

Bioconcentration factor	<10 (Fish) Bioconcentration factor (BCF) < 10 Test substance: Fresh water Exposure time: 3 d; Species Fish, Leuciscus idus (Golden orfe)
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**· 12.4 Mobility in soil** No further relevant information available.**· Additional ecological information:****· General notes:**

Water hazard class 3 (German Regulation) (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 sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

**· 12.5 Results of PBT and vPvB assessment**

· **PBT:** The product is not, nor contains, a substance that is, PBT.

· **vPvB:** The product is not, nor contains a substance that is, vPvB.

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· **12.6 Other adverse effects** No further relevant information available.

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### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1866

· **14.2 UN proper shipping name**

· **ADR**

1866 RESIN SOLUTION

· **IMDG, IATA**

RESIN SOLUTION

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**

· **ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**

Not applicable.

· **14.6 Special precautions for user**

Warning: Flammable liquids.

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

· **EMS Number:**

F-E,S-E

· **Stowage Category**

B

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **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

· **Transport category**

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· <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 1866 RESIN SOLUTION, 3, II

### SECTION 15: Regulatory information

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

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

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

#### · Directive 2012/18/EU

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category** P5c FLAMMABLE LIQUIDS

· **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

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

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

#### LIMITATION OF LIABILITY

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

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

[www.alfalaval.com](http://www.alfalaval.com)

#### · Relevant phrases

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

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- 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.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H361d Suspected of damaging the unborn child.
- H370 Causes damage to organs.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

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

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**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
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 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  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

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