

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

Printing date 17.05.2021

Version number 2

Revision: 17.05.2021

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
 - **Trade name: GC6C**
 - **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
 - **Application of the substance / the mixture** Adhesive
 - **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 or in section 16 "Other Information" in the end of the safety data sheet
 - **Emergency telephone number:**
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.
For Saudi Arabia;
King Fahad Medical City Poison Control Department Hotline: 011-2889887
Emergency: 112

2 Hazards identification

- **Classification of the substance or mixture**
- | | |
|-------------------|---|
| 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 | H361 Suspected of damaging fertility or 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. |

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

- **Signal word** Danger

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

formaldehyde, oligomeric reaction products with phenol
toluene
phenol
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.
H361 Suspected of damaging fertility or 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**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**

- **Results of PBT and vPvB assessment**

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

3 Composition/information on ingredients

- **Chemical characterisation: 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	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; Acute Tox. 5, H303; Aquatic Chronic 3, H412	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%

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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%

· **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:** 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.
- **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 Firefighting measures

- **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
- **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.

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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.

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 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.

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.

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· **Specific end use(s)** Professional use only.

8 Exposure controls/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:**

CAS: 108-88-3 toluene

PEL (USA)	Long-term value: 200 ppm Ceiling limit: 300; 500* ppm *10-min peak per 8-hr shift
REL (USA)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV (USA)	Long-term value: 75 mg/m ³ , 20 ppm BEI
IOELV (EU)	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 192 mg/m ³ , 50 ppm Skin
WEL (Great Britain)	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 191 mg/m ³ , 50 ppm Sk

CAS: 108-95-2 phenol

PEL (USA)	Long-term value: 19 mg/m ³ , 5 ppm Skin
REL (USA)	Long-term value: 19 mg/m ³ , 5 ppm Ceiling limit: 60* mg/m ³ , 15.6* ppm *15-min; Skin
TLV (USA)	Long-term value: 19 mg/m ³ , 5 ppm Skin; BEI
IOELV (EU)	Short-term value: 16 mg/m ³ , 4 ppm Long-term value: 8 mg/m ³ , 2 ppm Skin
WEL (Great Britain)	Short-term value: 16 mg/m ³ , 4 ppm Long-term value: 7.8 mg/m ³ , 2 ppm Sk

CAS: 67-56-1 methanol

PEL (USA)	Long-term value: 260 mg/m ³ , 200 ppm
REL (USA)	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV (USA)	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI
IOELV (EU)	Long-term value: 260 mg/m ³ , 200 ppm Skin
WEL (Great Britain)	Short-term value: 333 mg/m ³ , 250 ppm Long-term value: 266 mg/m ³ , 200 ppm Sk

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CAS: 50-00-0 formaldehyde

PEL (USA)	Short-term value: 2 ppm Long-term value: 0.75 ppm see 29 CFR 1910.1048(c)
REL (USA)	Long-term value: 0.016 ppm Ceiling limit: 0.1* ppm *15-min; See Pocket Guide App. A
TLV (USA)	Short-term value: 0.37 mg/m ³ , 0.3 ppm Long-term value: 0.12 mg/m ³ , 0.1 ppm DSEN; RSEN
WEL (Great Britain)	Short-term value: 2.5 mg/m ³ , 2 ppm Long-term value: 2.5 mg/m ³ , 2 ppm

· 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 ³ (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 ³ (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 ³ (Worker)

· PNECs**CAS: 108-88-3 toluene**

PNEC | 0.68 mg/L (Freshwater)

CAS: 108-95-2 phenol

PNEC | 0.0077 mg/L (Freshwater)

CAS: 67-56-1 methanol

PNEC | 154 mg/L (Freshwater)

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

BEI (USA)	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	

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	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)	
CAS: 108-95-2 phenol		
BEI (USA)	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)	
CAS: 67-56-1 methanol		
BEI (USA)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)	
CAS: 108-88-3 toluene		
BEI (USA)	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 (USA)	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)	
CAS: 67-56-1 methanol		
BEI (USA)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)	

· **Additional information:** The lists valid during the making 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.

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· **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.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Fluid

Colour: Brown

· **Odour:** Characteristic

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/freezing point:** Undetermined.

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Initial boiling point and boiling range: >125 °C	
· Flash point:	>1 °C (ISO 2719, CLOSED CUP)
· Decomposition temperature:	>200 C
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidising properties	Not applicable.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1 g/cm ³
· Relative density	Not determined.
· Vapour 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.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** The material is stable under recommended storage and handling conditions.
- **Chemical stability**
Stable under normal temperature conditions and under recommended usage and storage.
- **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 oxidising agents.
- **Hazardous decomposition products:**
In case of fire, the following can be released:
Nitrogen oxides (NO_x)
Poisonous gases/vapours

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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 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)

- Primary irritant effect:

- Skin corrosion/irritation

Caustic effect on skin and mucous membranes.

CAS: 67-56-1 methanol

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

- Serious eye damage/irritation

Strong caustic effect.

Irritating effect.

- Respiratory or skin sensitisation Sensitisation possible through skin contact.

- Additional toxicological information:

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

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.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Muta. 2, Carc. 1B, Repr. 2

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)
CAS: 50-00-0 formaldehyde	
LC50 (48 h) (static)	6.7 mg/L (No information available)
EC50 (static)	5.8 mg/L (Daphnia)

- **Persistence and degradability**

CAS: 108-88-3 toluene	
Biodegradability	81 % (No information available)
CAS: 108-95-2 phenol	
Biodegradability	62 % (No information available)
CAS: 67-56-1 methanol	
Biodegradability	69-97 % (No information available)
CAS: 50-00-0 formaldehyde	
Biodegradability	100 % (No information available)

- **Behaviour in environmental systems:**

- **Bioaccumulative potential**

CAS: 67-56-1 methanol	
Bioconcentration factor	<10 (Fish)

- **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.

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

13 Disposal considerations

- **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.

14 Transport information

· UN-Number · ADR, IMDG, IATA	UN1866
· UN proper shipping name · ADR · IMDG, IATA	1866 RESIN SOLUTION RESIN SOLUTION
· Transport hazard class(es) · ADR, IMDG, IATA	
	
· Class · Label	3 Flammable liquids. 3
· Packing group · ADR, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E, <u>S</u> -E B
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2

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· Tunnel restriction code	D/E
· 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

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 - FULFILS

PICCS - FULFILS

· **GHS label elements**

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

· **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08

· **Signal word** Danger

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

formaldehyde, oligomeric reaction products with phenol

toluene

phenol

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.

H361 Suspected of damaging fertility or 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**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

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P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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
- **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.

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· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H227 Combustible liquid.
- H301 Toxic if swallowed.
- H303 May be harmful 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.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H361 Suspected of damaging fertility or 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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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
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
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 5: Acute toxicity – Category 5
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.**