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

Printing date 21.02.2023 Version number 5 Revision: 21.02.2023

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

· **Product identifier**

· **Trade name: GC6C**

· **Article number:** 3222030556
· **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 Technologies AB
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 Saudi Arabia;
King Fahad Medical City Poison Control Department Hotline: 011-2889887
Emergency: 112

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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

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

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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**
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.

· **Other hazards**
· **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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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	30-<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; Aquatic Chronic 2, H411	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	0.2-<1%

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

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4 First aid measures

· **Description of first aid measures**
· **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **After inhalation:** Supply fresh air; consult doctor if symptoms persist.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If symptoms persist consult a doctor.
· **After eye contact:**
Rinse cautiously with water for 15 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/physician.
· **Most important symptoms and effects, both acute and delayed**
Causes severe skin burns and eye damage.
· **Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

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5 Firefighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
Carbon dioxide
Sand
Fire-extinguishing powder
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
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.

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Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Do not breathe vapour.
· **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Send for recovery or disposal in suitable receptacles.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
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.
See Section 8 for information on personal protection equipment.
Keep ignition sources away - Do not smoke.
Keep away from heat and direct sunlight.
Do not breathe vapour.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
When using do not eat, drink or smoke.
Use non-sparking tools.
· **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.
Keep ignition sources away - Do not smoke.
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.
Store in a cool location.
· **Information about storage in one common storage facility:** See section 10 in the SDS
· **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Specific end use(s)** Professional use only.

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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: 64-17-5 ethanol	
PEL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
REL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
TLV (USA)	Short-term value: 1000 ppm A3
WEL (Great Britain)	Long-term value: 1920 mg/m³, 1000 ppm
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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
TLV (USA)	Long-term value: 20 ppm BEI, OTO, A4
IOELV (EU)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 192 mg/m³, 50 ppm Skin
WEL (Great Britain)	Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk
CAS: 108-95-2 phenol	
PEL (USA)	Long-term value: 19 mg/m³, 5 ppm Skin
REL (USA)	Long-term value: 19 mg/m³, 5 ppm Ceiling limit: 60* mg/m³, 15.6* ppm *15-min; Skin
TLV (USA)	Long-term value: 5 ppm Skin; BEI, A4
IOELV (EU)	Short-term value: 16 mg/m³, 4 ppm Long-term value: 8 mg/m³, 2 ppm Skin
WEL (Great Britain)	Short-term value: 16 mg/m³, 4 ppm Long-term value: 7.8 mg/m³, 2 ppm Sk
CAS: 67-56-1 methanol	
PEL (USA)	Long-term value: 260 mg/m³, 200 ppm
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV (USA)	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI

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IOELV (EU)	Long-term value: 260 mg/m³, 200 ppm Skin
WEL (Great Britain)	Short-term value: 333 mg/m³, 250 ppm Long-term value: 266 mg/m³, 200 ppm Sk
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: 0.3 ppm Long-term value: 0.1 ppm DSEN; RSEN, A1
BOELV (EU)	Short-term value: 0.74 mg/m³, 0.6 ppm Long-term value: 0.37 (0.62)* mg/m³, 0.3 (0.5)* ppm Skin sens;*health/funeral/embalming till 11/7/24
WEL (Great Britain)	Short-term value: 2.5 mg/m³, 2 ppm Long-term value: 2.5 mg/m³, 2 ppm Carc

· **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/m3 (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/m3 (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/m3 (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)

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· **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 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:**
Eye wash bottle or emergency eye wash fontain must be found in the work place
Use only in well-ventilated areas.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
· **Respiratory protection:**

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

· **Protection of hands:**

Protective gloves

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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
Nitrile rubber, NBR
Ethyl Vinyl Alcohol Laminate (EVAL)
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**
EVAL: >8h
NBR: 10 -480 min

· **Eye protection:**


Tightly sealed goggles

· **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
· **Odour threshold:**	Not determined.
· **pH-value:**	Not determined.
· **Change in condition**	
Melting point/freezing point:	Undetermined.
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.

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· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Oxidising properties**	Not applicable.
· **Vapour pressure:**	Not determined.
· **Density at 20 °C:**	1 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	1500 -3000 mPa s (25 C) Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	34.3-<58 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability** The material is stable under recommended storage and handling conditions.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions**
Forms explosive gas mixture with air.
No further data; see item 7.
· **Conditions to avoid** High temperature
· **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 (NOx)
Poisonous gases/vapours

11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity**		
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**
Causes severe skin burns and eye damage.

CAS: 67-56-1 methanol		
Irritation of skin	Skin Corrosion/Irritation	(Rabbit)

· **Serious eye damage/irritation**
Strong irritant with the danger of severe eye injury.
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:
Irritant
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Muta. 2, Carc. 1B, Repr. 2
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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12 Ecological information

· **Toxicity**
· **Aquatic toxicity:**
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS: 108-88-3 toluene	
LC50 (48 h)	5.5 mg/L (Fish)
NOEC - No observed effect concentration	0.74 mg/l (Daphnia)

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CAS: 108-95-2 phenol	
LC50 (48 h)	8.9 mg/L (Trout)
	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
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
EC50 (static)	5.8 mg/L (Daphnia)

· **Persistence and degradability**

CAS: 108-88-3 toluene	
Biodegradability	81 %
CAS: 108-95-2 phenol	
Biodegradability	62 %
CAS: 67-56-1 methanol	
Biodegradability	69-97 %
CAS: 50-00-0 formaldehyde	
Biodegradability	100 %

· **Behaviour in environmental systems:**

· **Bioaccumulative potential**

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

· **Mobility in soil** No further relevant information available.
· **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.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation**
Hand over to hazardous waste disposers.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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

14 Transport information

· **UN-Number**
· **ADR, IMDG, IATA** UN1866

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· **UN proper shipping name**	
· **ADR**	1866 RESIN SOLUTION
· **IMDG, IATA**	RESIN SOLUTION
· **Transport hazard class(es)**	
· **ADR, IMDG, IATA**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **Packing group**	
· **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 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**	2
· **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

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU Regulation (EC) no.1907/2006 (REACH)
· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).

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· **Hazard pictograms**

GHS02 GHS05 GHS07 GHS08

· **Signal word** Danger

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

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.

· **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

· **National regulations:**
· **Additional classification according to Decree on Hazardous Materials, Annex II:**
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
· **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

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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

· **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.
H411 Toxic to aquatic life with long lasting effects.
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

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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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**