Safety Data Sheet
acc. to OSHA HCS

Printing date 01/10/2024 Version 6 Reviewed on 01/09/2024

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 Technologies AB
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 or in safety data sheet under section 16: Other Informaion
· **Emergency telephone number:**
Call CHEMTREC
+1 703-741-5970 / 1-800-424-9300 CCN 844

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2 Hazard(s) identification

· **Classification of the substance or mixture**

Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Skin Corrosion 1B	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Germ Cell Mutagenicity 2	H341 Suspected of causing genetic defects.
Carcinogenicity 1B	H350 May cause cancer.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure 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:**
toluene
phenol
formaldehyde

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· **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.
· **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 characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
CAS: 9003-35-4	formaldehyde, oligomeric reaction products with phenol Sensitization - Skin 1, H317	30-<50%
CAS: 64-17-5	ethanol Flammable Liquids 2, H225	20-<30%
CAS: 108-88-3	toluene Flammable Liquids 2, H225; Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H336	10-<20%
CAS: 108-95-2	phenol Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; Germ Cell Mutagenicity 2, H341; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Skin Corrosion 1B, H314	3-<5%
CAS: 67-56-1	methanol Flammable Liquids 2, H225; Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; Specific Target Organ Toxicity - Single Exposure 1, H370	1-<3%
CAS: 50-00-0	formaldehyde Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331; Germ Cell Mutagenicity 2, H341; Carcinogenicity 1A, H350; Skin Corrosion 1B, H314; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	0.2-<1%

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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 in case of complaints.
· **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 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
· **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 Fire-fighting 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.

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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.
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.

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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 neutralizing agent.
Dispose contaminated material as waste according to section 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.

· **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
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.

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Use only non-sparking tools.
· **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.
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 receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· **Recommended storage temperature:** 35-104 °C
· **Specific end use(s)** Professional use only.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**
· **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

CAS: 64-17-5 ethanol	
PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1000 ppm A3
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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
TLV	Long-term value: 20 ppm BEI, OTO, A4
CAS: 108-95-2 phenol	
PEL	Long-term value: 19 mg/m³, 5 ppm Skin
REL	Long-term value: 19 mg/m³, 5 ppm Ceiling limit value: 60* mg/m³, 15.6* ppm *15-min; Skin

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TLV	Long-term value: 5 ppm Skin; BEI, A4
CAS: 67-56-1 methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 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: 0.3 ppm Long-term value: 0.1 ppm DSEN; RSEN, A1

· **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)
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.

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· **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.
· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:
Filter A
· **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**
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

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· **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
· **Odor threshold:**	Not determined.
· **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
· **Ignition temperature:**	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/cm³ (8.345 lbs/gal)
· **Relative density**	Not determined.
· **Vapor 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 %
VOC content:	34.25-<58 %
· **Other information**	No further relevant information available.

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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 section 7.
· **Conditions to avoid** High temperature
· **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 (NOx)
Poisonous gases/vapors

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11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**		
CAS: 108-95-2 phenol		
Dermal	LDLo	630 mg/kg (rabbit) (LD50)

· **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)

· **Primary irritant effect:**
· **on the skin:**
Causes severe skin burns and eye damage.

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

· **on the eye:**
Strong irritant with the danger of severe eye injury.
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:
Irritant

· **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

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

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Specific target organ toxicity - single exposure**
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)
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)

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· **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 %

· **Behavior 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 of together with household garbage. Do not allow product to reach sewage system.

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

14 Transport information

· **UN-Number**	
· **DOT, ADR/RID/ADN, IMDG, IATA**	UN1866
· **UN proper shipping name**	
· **DOT**	Resin solution
· **ADR/RID/ADN**	1866 RESIN SOLUTION
· **IMDG, IATA**	RESIN SOLUTION
· **Transport hazard class(es)**	
· **DOT**	

· **Class**	3 Flammable liquids

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· **Label**	3
· **ADR/RID/ADN, IMDG, IATA**	
	
· **Class**	3 Flammable liquids
· **Label**	3
· **Packing group**	
· **DOT, ADR/RID/ADN, 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/RID/ADN**	
· **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

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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)
· **Sara**

· **Section 355 (extremely hazardous substances):**	
CAS: 108-95-2	phenol
CAS: 50-00-0	formaldehyde

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· **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	II
CAS: 108-95-2	phenol	D, I
CAS: 50-00-0	formaldehyde	B1

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

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
CAS: 50-00-0	formaldehyde

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

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· **Signal word** Danger

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

· **National regulations:**
· **Additional classification according to Decree on Hazardous Materials:**
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 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 futher questions.
www.alfalaval.com

· **Department issuing SDS:** Alfa Laval Sustainability Environment

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· **Contact:**
Argentina: alfa.consulta@alfalaval.com
Australia: australia.info@alfalaval.com
Austria: info.mideurope@alfalaval.com
Belgium: benelux.info@alfalaval.com
Bolivia: alfa.consulta@alfalaval.com
Brazil: alfalaval.br@alfalaval.com
Bulgaria: bulgaria.info@alfalaval.com
Canada: alfacan.info@alfalaval.com
Chile: chile.informacion@alfalaval.com
China: china.info@alfalaval.com
Colombia: info.colombia@alfalaval.com
Croatia: hrvatska.info@alfalaval.com
Czech Republic: czechrepublic.info@alfalaval.com
Denmark: info.nordic.dk@alfalaval.com
Egypt: alme.marketing@alfalaval.com
Estonia: estonia.info@alfalaval.com
Finland: info.fi@alfalaval.com
France: environnement@alfalaval.com
Germany: info.mideurope@alfalaval.com
Greece: greece.info@alfalaval.com
Hungary: info.hu@alfalaval.com
India: india.info@alfalaval.com
Indonesia: alfalindo@alfalaval.com
Israel: israel.info@alfalaval.com
Italy: alfalaval.italia@alfalaval.com
Japan: hp.alfajp@alfalaval.com
Latvia: latvia.info@alfalaval.com
Lithuania: lithuania.info@alfalaval.com
Malaysia: malaysia.info@alfalaval.com
Mexico: mexico.info@alfalaval.com
The Netherlands: benelux.info@alfalaval.com
New Zealand: newzealand.info@alfalaval.com
Norway: info.no@alfalaval.com
Peru: ventas.peru@alfalaval.com
Philippines: philippines.info@alfalaval.com
Poland: poland.info@alfalaval.com
Portugal: portugal.info@alfalaval.com
Qatar: alme.marketing@alfalaval.com
Romania: romania.info@alfalaval.com
Russia: moscow.response@alfalaval.com
Singapore: al.singapore@alfalaval.com
Slovak Republic: slovakia.info@alfalaval.com
Slovenia: slovenija.info@alfalaval.com
South Africa: info.sa@alfalaval.com
Spain: info.spain@alfalaval.com
Sweden: info.se@alfalaval.com
Switzerland: info.mideurope@alfalaval.com
Taiwan: taiwan.info@alfalaval.com
Thailand: thailand.info@alfalaval.com
Turkey: turkey@alfalaval.com
Ukraine: ukraine.info@alfalaval.com
United Arab Emirates: alme.marketing@alfalaval.com
United Kingdom: general.uk@alfalaval.com

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Safety Data Sheet
acc. to OSHA HCS

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Trade name: GC6C

(Contd. of page 15)

United States: customerservice.usa@alfalaval.com
Venezuela: venezuela.info@alfalaval.com
Vietnam: vietnam.info@alfalaval.com

· **Date of preparation / last revision** 01/10/2024

· **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
Flammable Liquids 2: Flammable liquids – Category 2
Flammable Liquids 4: Flammable liquids – Category 4
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Sensitization - Skin 1: Skin sensitisation – Category 1
Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2
Carcinogenicity 1A: Carcinogenicity – Category 1A
Carcinogenicity 1B: Carcinogenicity – Category 1B
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration Hazard 1: Aspiration hazard – Category 1

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