

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

Version number 14

Revision: 16.02.2023

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




- **1.1 Product identifier**
- **Trade name:** GC 8
- **Article number:** 1899900-25, 1899900-26, 98500090-82
- **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** Adhesives
- **1.3 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
- **1.4 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.

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 Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
Muta. 2	H341 Suspected of causing genetic defects.
STOT SE 3	H336 May cause drowsiness or dizziness.
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 GB CLP regulation.
- **Hazard pictograms**

GHS02
GHS07
GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
butanone

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formaldehyde, oligomeric reaction products with phenol

phenol

di(benzothiazol-2-yl) disulphide

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H336 May cause drowsiness or dizziness.

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.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

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.

P403 Store in a well-ventilated place.

P405 Store locked up.

2.3 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.

Determination of endocrine-disrupting properties

CAS: 78-93-3 butanone

List II

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Solvent based adhesive

Dangerous components:

CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-0000	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	50-<70%
CAS: 9003-35-4	formaldehyde, oligomeric reaction products with phenol Skin Sens. 1, H317	1-<10%
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; Aquatic Chronic 2, H411 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 3 % Skin Irrit. 2; H315: 1 % ≤ C < 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 %	1-<2.5%

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CAS: 120-78-5 EINECS: 204-424-9	di(benzothiazol-2-yl) disulphide Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317, EUH031	(Contd. of page 2) 0.1-<0.25%
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· **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; consult doctor if symptoms persist.
- **After skin contact:**
Take off immediately all contaminated clothing.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If symptoms persist consult a doctor.
- **After swallowing:**
Rinse the mouth with water.
Do NOT induce vomiting.
Contact a doctor/physician.
- **4.2 Most important symptoms and effects, both acute and delayed**
Vapours may cause drowsiness and dizziness.
Causes serious eye irritation.
Allergic reactions
Irritant to skin and mucous membranes.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
Water haze
Foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Highly flammable.
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

Do not breathe vapour.

· 6.2 Environmental precautions:

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

Send for recovery or disposal in suitable receptacles.

· 6.3 Methods and material for containment and cleaning up:

Use non-sparking tools.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

· 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

Ensure adequate ventilation

Ensure that suitable extractors are available on processing machines

Take precautionary measures against static discharges.

Use non-sparking tools.

Open and handle receptacle with care.

Prevent formation of aerosols.

When using do not eat, drink or smoke.

See Section 8 for information on personal protection equipment.

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

· Information about fire - and explosion protection:

Highly flammable.

Highly volatile, flammable constituents are released during processing.

Fumes can combine with air to form an explosive mixture.

Flammable gas-air mixtures may form in empty receptacles.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

Protect from sunlight.

· Information about storage in one common storage facility:

Keep away from combustible materials.

· Further information about storage conditions: Keep container tightly sealed.

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· 7.3 Specific end use(s)

Adhesives

Professional use only.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 78-93-3 butanone

WEL	Short-term value: 899 mg/m ³ , 300 ppm
	Long-term value: 600 mg/m ³ , 200 ppm
	Sk, BMGV

CAS: 108-95-2 phenol

WEL	Short-term value: 16 mg/m ³ , 4 ppm
	Long-term value: 7.8 mg/m ³ , 2 ppm
	Sk

· DNELs

CAS: 78-93-3 butanone

Dermal	DNEL - Long term, Systemic effects	1,161 mg/kg/day (Worker)
Inhalative	DNEL - Long term, Systemic effects	600 mg/kg/day (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)

· PNECs

CAS: 108-95-2 phenol

PNEC	0.0077 mg/L (Freshwater)
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· Ingredients with biological limit values:

CAS: 78-93-3 butanone

BMGV	70 µmol/L
	Medium: urine
	Sampling time: post shift
	Parameter: butan-2-one

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· **Appropriate engineering controls** Use only in well-ventilated areas.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

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.

Use only in well-ventilated areas.

In case of insufficient ventilation, wear suitable respiratory equipment.

· **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment.

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Filter A



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.

· Hand protection

Solvent resistant gloves



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

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.

· Eye/face protection



Tightly sealed goggles

· **Body protection:** Wear protective clothing.

· **Environmental exposure controls** Avoid release to the environment.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour:	Yellow-brown
· Odour:	Solvent odour
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	80 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1.8 Vol %
· Upper:	11.5 Vol %
· Flash point:	-4 °C
· Ignition temperature:	Not applicable
· Decomposition temperature:	Not determined.
· pH	Not determined.

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· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	4,000 mPas
· Solubility	
· water:	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	105 hPa
· Density and/or relative density	
· Density at 20 °C:	0.89 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Paste
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	51-<72.5 %
· VOC (EC)	69.7 %
· Solids content:	30.0 %
· Change in condition	
· Drip point:	
· Oxidising properties	Not applicable.
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	
Highly flammable liquid and vapour.	
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
Stable under normal temperature conditions and under recommended usage and storage.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Develops readily flammable gases/fumes.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· Acute toxicity

CAS: 78-93-3 butanone

Oral	LDLo	2,740 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	LDLo	6,480 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.

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: 78-93-3 butanone

Oral	LD50	3,300 mg/kg (Rat)
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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)

· Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

· Germ cell mutagenicity

Suspected of causing genetic defects.

· Carcinogenicity

Based on available data, the classification criteria are not met.

· Reproductive toxicity

Based on available data, the classification criteria are not met.

· STOT-single exposure

May cause drowsiness or dizziness.

· STOT-repeated exposure

Based on available data, the classification criteria are not met.

· Aspiration hazard

Not applicable.

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- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Muta. 2
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
Endocrine disrupting properties from <https://edlists.org>

CAS: 78-93-3 butanone

List II

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 108-95-2 phenol

LC50 (48 h)	0.00175-67.5 mg/L (Fish) (96 h.) Test type: Flow-through test Test substance: Fresh water
EC50 (48 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 Exposure time: 60 d Species: Other Test Type: semi-static test Test substance: Fresh water

12.2 Persistence and degradability

CAS: 108-95-2 phenol

Biodegradability	62 % Inoculum: Active sludge Concentration: 30 mg/L Result: Readily biodegradable. Exposure time: 4,16667 d Method: OECD Test Guideline 301C
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12.3 Bioaccumulative potential

12.4 Mobility in soil

Low solubility in water
The product is not expected to be mobile in soil.

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.

12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

No further relevant information available.

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SECTION 13: Disposal considerations

13.1 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.

yes European waste catalogue

The European Waste Catalogue (EWC) waste codes do not refer to product but to origin. The manufacturer is therefore unable to quote a waste code for products which are used in various industries. Any codes shown should be regarded as a recommendation to the user.

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

Uncleaned packaging:

Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA

UN1133

14.2 UN proper shipping name

ADR

1133 ADHESIVES, containing flammable liquid

IMDG, IATA

ADHESIVES, containing flammable liquid

14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class

3 Flammable liquids.

Label

3

14.4 Packing group

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code): -

EMS Number:

F-E,S-D

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· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· Remarks:	Viscous according to ADR § 2.2.3.1.4 (Packaging group III when packed in receptacles not exceeding 450 L capacity)
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	Viscous according to 2.3.2.2 of the IMDG code (Packaging group III when packed in receptacles not exceeding 30 L capacity)
· IATA	
· Remarks:	Viscous according to IATA § 3.3.3.1 (Packaging group III when packed in receptacles not exceeding 30 L capacity)
· UN "Model Regulation":	UN 1133 ADHESIVES, CONTAINING FLAMMABLE LIQUID, 3, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - EU regulation (EC) no 1272/2008 (GB CLP)
 - EC DIRECTIVE 2008/98/EC (waste)
 - EU Regulation (EC) no.1907/2006 (UK REACH)
- **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
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

CAS: 78-93-3 butanone

3

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

CAS: 78-93-3 butanone

3

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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

· Relevant phrases

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

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EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing SDS:** Alfa Laval Corporate Standards & Regulatory Operations

· **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
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Safety data sheet

according to 1907/2006/EC, Article 31

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· **Date of previous version:** 22.02.2022· **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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK 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 Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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.**

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