



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

Printing date 26.04.2015

Version number 2

Revision: 26.04.2015

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

- **Product identifier**

- **Trade name: GC6A**

- **Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

- **Application of the substance / the mixture** Adhesives

- **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

Australian supplier:

Alfa Laval Australia Pty Ltd

Locked Bag 40, Blacktown Business Centre

NSW - NSW-2148 Blacktown

Australia

Visit: 14 Healey Circuit, - NSW - NSW-2148 Huntingwood

Tel switchboard: +61 2 8822 2700 - Fax switchboard: +61 2 8822 2799

www.alfalaval.com.au

australia.info@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:**

In the UK: 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.

Call 000 or 112 and ask for poison information.

2 Hazards identification

- **Classification of the substance or mixture**

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.

Carc. 1A H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

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Label elements**GHS label elements**

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

Hazard pictograms

GHS02 GHS07 GHS08

Signal word Danger**Hazard-determining components of labelling:**

ethanol
Phenol formaldehyde
toluene
phenol

Hazard statements

Highly flammable liquid and vapour.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear protective gloves.
Avoid release to the environment.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.

Other hazards**Results of PBT and vPvB assessment**

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

3 Composition/information on ingredients

Chemical characterisation: Mixtures**Description:**

Polyvinylbutyral	25-50%
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Dangerous components:

64-17-5 ethanol	50-100%
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9003-35-4	Phenol formaldehyde	10-25%
108-88-3	toluene	10-25%
108-95-2	phenol	≤ 2.5%
67-56-1	methanol	≤ 2.5%
78-93-3	butanone	≤ 2.5%
67-63-0	propan-2-ol	≤ 2.5%

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

4 First aid measures

· **Description of first aid measures**

· **General information:**

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 persists.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing.

If symptoms persist consult doctor.

· **After eye contact:**

Flush eyes with lukewarm water for 10-15 minutes. Transport the exposed person to hospital or an eye specialist. Continue rinsing eyes during transport.

Remove contact lenses, if present and easy to do. Continue rinsing.

· **After swallowing:**

Wash the mouth with water.

If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** Refer to section 11.1

· **Hazards**

Contains chemical(s) which can cause damages to the unborn child or other reproduction damages.

· **Indication of any immediate medical attention and special treatment needed**

This product contain methanol. Methanol poisoning can cause matabolic acidose, blindness or death. The symptoms can be delayed for 18 to 24 hours.

5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

Extinguish fire with choice suitable for flammable solvents.

Carbon dioxide

Fire-extinguishing powder

· **Special hazards arising from the substance or mixture**

Vapors may travel along the floor to an ignition source and ignite.

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- **Advice for firefighters**
- **Protective equipment:**
 - Wear fully protective suit.
 - Water can be insufficient for fighting fire but can be used to cool containers and surfaces.
 - Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Ensure adequate ventilation
 - Keep away from ignition sources.
 - Use respiratory protective device against the effects of fumes/dust/aerosol.
 - Absorb liquid components with liquid-binding material.
 - Use only non-sparking tools.
 - Wear protective equipment. Keep unprotected persons away.
 - Do not breathe vapour.
- **Environmental precautions:**
 - Keep contaminated washing water and dispose of appropriately.
 - Do not flush with water or aqueous cleansing agents
 - Do not allow to enter sewers/ surface or ground water.
 - Send for recovery or disposal in suitable receptacles.
- **Methods and material for containment and cleaning up:**
 - Send for recovery or disposal in suitable receptacles.
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.
 - Do not flush with water or aqueous cleansing agents
- **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**
 - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
 - Avoid contact with skin.
 - Handle and open container with care.
 - Do not breathe vapour.
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of aerosols.
 - When using do not eat, drink or smoke.
 - See Section 8 for information on personal protection equipment.
 - Use only non-sparking tools.
- **Information about fire - and explosion protection:**
 - Wear shoes with conductive soles.

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Use explosion-proof apparatus / fittings and spark-proof tools.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 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 cool.

Protect from sunlight.

- **Information about storage in one common storage facility:**

Store away from oxidising agents.

Do not store together with acids.

- **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- **Specific end use(s)**

Adhesives

Restricted to professional users.

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:**

64-17-5 ethanol	
NES	1880 mg/m ³ , 1000 ppm
108-88-3 toluene	
NES	Short-term value: 574 mg/m ³ , 150 ppm
	Long-term value: 191 mg/m ³ , 50 ppm
	Sk
108-95-2 phenol	
NES	4 mg/m ³ , 1 ppm
	Sk
67-56-1 methanol	
NES	Short-term value: 328 mg/m ³ , 250 ppm
	Long-term value: 262 mg/m ³ , 200 ppm
	Sk

- **DNELs**

108-88-3 Toluene: Hazard via inhalation route: Long time exposure: 192 mg/m³; Acute/short term exposure: 384 mg/m³.

108-95-2 Phenol: Hazard via inhalation route: Long time exposure: 8 mg/m³, Acute/short time exposure: 16 mg/m³.

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67-56-1 Methanol: Hazard via inhalation route: Long time exposure: 260 mg/m³, Acute/short time exposure: 260 mg/m³.

64-17-5 Ethanol: Hazard via inhalation route: Long time exposure: 950 mg/m³, Acute/short time exposure: No-threshold effect and/or no dose-response information available.

• PNECs

64-17-5 Ethanol: Aqua (freshwater): 0.96 mg/L, Assessment factor: 10, Extrapolation method: Assessment factor.

108-88-3 Toluene: Aqua (freshwater): 0.68 mg/L, Assessment factor: 1, Extrapolation method: Statistical extrapolation.

108-95-2 Phenol: Aqua (freshwater): 0.0077 mg/L, Assessment factor: 10, Extrapolation method: Assessment factor.

67-56-1 Methanol: Aqua (freshwater): 154 mg/L, Assessment factor: 100, Extrapolation method: Assessment factor.

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

• Exposure controls**• Personal protective equipment:****• General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

The curing oven must have well working ventilation.

Ensure that washing facilities are available at the work place.

Ground/bond container and receiving equipment.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Use only in well-ventilated areas.

In case of insufficient ventilation, wear suitable respiratory equipment.

• 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:

Check protective gloves prior to each use for their proper condition.



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

Fluoroelastomer

Polymere laminate

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

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be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Tightly sealed goggles

· Body protection:When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is risk of splashing):
Use protective suit.**· Limitation and supervision of exposure into the environment**

Keep contaminated washing water and dispose of appropriately.

Do not flush with water or aqueous cleansing agents

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

Send for recovery or disposal in suitable receptacles.

9 Physical and chemical properties

· Information on basic physical and chemical properties**· General Information****· Appearance:**

Form:	Fluid
Colour:	Yellow-brown
· Odour:	Phenol-like
· Odour threshold:	Not determined.

· pH-value: Not determined.**· Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55 °C

· Flash point: 4 °C**· Flammability (solid, gaseous):** Not applicable.**· Ignition temperature:****Decomposition temperature:** Not determined.**· Self-igniting:** Not determined.**· Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**· Explosion limits:**

Lower:	1.2 Vol %
Upper:	15.0 Vol %

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· Vapour pressure at 20 °C:	59 hPa
· Density:	Not determined.
· Relative density at 20 °C	0.9-0.95 g/cm ³
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	81.5 %
VOC (EC)	65.00 %
· Other information	Volatile organic compounds: 495 - 617 g/l Volative compounds: 55 - 65 %

10 Stability and reactivity

· Reactivity

This product can be reactive with certain compounds under some circumstances - please see headings in this section.

· Chemical stability**· Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.**· Conditions to avoid**

Keep ignition sources away - Do not smoke.

Take precautionary measures against static discharge.

Do not store together with acids.

Store away from oxidising agents.

· Incompatible materials: No further relevant information available.**· Hazardous decomposition products:**

No further information, refer to section 5.

Formation of toxic gases is possible during heating or in case of fire.

Aldehyde

Irritant gases/vapours

Hydrocarbons

Carbon monoxide and carbon dioxide

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11 Toxicological information

108-95-2 phenol

Dermal	LDLo	630 mg/kg (rabbit) (LD50)
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78-93-3 butanone

Dermal	LDLo	6480 mg/kg (rabbit) (LD50)
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· Information on toxicological effects

· Acute toxicity

64-17-5 ethanol

Oral	LD50	7060 mg/kg (rat)
Inhalative	LC50/4 h	20000 mg/l (rat)

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

108-95-2 phenol

Oral	LD50	317 mg/kg (rat)
Dermal	LD50	850 mg/kg (rabbit)

67-56-1 methanol

Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)

78-93-3 butanone

Oral	LD50	3300 mg/kg (rat)
	LDLo	2740 mg/kg (rat)

67-63-0 propan-2-ol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

· Primary irritant effect:

· **Skin corrosion/irritation** Irritant to skin and mucous membranes.

· Serious eye damage/irritation

Irritating effect.

May cause irreversible eye damage

· Respiratory or skin sensitisation

The product contains one or more allergens.

Sensitisation possible through skin contact.

· Additional toxicological information:

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

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

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Irritant

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

- **Sensitisation** The product contains one or more allergenic compounds.

- **Repeated dose toxicity**

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

The product contains one or more compounds that may be carcinogenic.

Muta. 2, Carc. 1A, Repr. 2

12 Ecological information

- **Toxicity**

No test data available for the product.

108-95-2 phenol

LC50 | 0.00175-67.5 mg/L (Fish) (96 h.)

78-93-3 butanone

LC50 | 3220 mg/L (Fish) (96 h.)

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** Contact your supplier for more information.

- **Mobility in soil** Contact your supplier for more information.

- **Additional ecological information:**

- **General notes:**

Do not allow product to reach ground water, water course or sewage system.

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

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **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.

- **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
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08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
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08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 27*	paint, inks, adhesives and resins containing dangerous substances

- **Uncleaned packaging:**
- **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information

<ul style="list-style-type: none"> · UN-Number · ADG, IMDG, IATA 	UN1133
<ul style="list-style-type: none"> · UN proper shipping name · ADG · IMDG, IATA 	1133 ADHESIVES, containing flammable liquid, ENVIRONMENTALLY HAZARDOUS ADHESIVES, containing flammable liquid
<ul style="list-style-type: none"> · Transport hazard class(es) · ADG 	
 	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
<ul style="list-style-type: none"> · IMDG, IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
<ul style="list-style-type: none"> · Packing group · ADG, IMDG, IATA 	II
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: · Special marking (ADG): 	No Symbol (fish and tree)
<ul style="list-style-type: none"> · Special precautions for user 	Warning: Flammable liquids.

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· EMS Number:	F-E,S-D
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	

· ADG	
· 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
· 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":	UN1133, ADHESIVES, containing flammable liquid, ENVIRONMENTALLY HAZARDOUS, 3, II

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU regulation (EC) no 1272/2008 (CLP)
EC DIRECTIVE 2008/98/EC (waste)
EU Regulation (EC) no.1907/2006 (REACH)

· Australian Inventory of Chemical Substances

64-17-5	ethanol
9003-35-4	Phenol formaldehyde
108-88-3	toluene
108-95-2	phenol
67-56-1	methanol
78-93-3	butanone
67-63-0	propan-2-ol
50-00-0	formaldehyde
123-31-9	1,4-dihydroxybenzene

· Standard for the Uniform Scheduling of Medicines and Poisons

108-88-3	toluene	S6
108-95-2	phenol	S2, S4, S5, S6
67-56-1	methanol	S5, S6
78-93-3	butanone	S5
50-00-0	formaldehyde	S2 +APPENDIX C, S6+APPENDIX C

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123-31-9 | 1,4-dihydroxybenzene

S2, S4, S6

- **GHS label elements**

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

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

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

ethanol
Phenol formaldehyde
toluene
phenol

- **Hazard statements**

Highly flammable liquid and vapour.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.

- **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear protective gloves.
Avoid release to the environment.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.

- **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

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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

• **Department issuing MSDS:** MACC -Materials & Chemistry Centre

• **Contact:**

Argentina: alfa.consulta@alfalaval.com

Australia: australia.info@alfalaval.com

Canada: alfacan.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

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

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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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
United States: customerservice.usa@alfalaval.com
Venezuela: venezuela.info@alfalaval.com
Vietnam: vietnam.info@alfalaval.com
Argentina: alfa.consulta@alfalaval.com
Australia: australia.info@alfalaval.com
Canada: alfacan.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
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
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

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)

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

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PNEC: Predicted No-Effect Concentration (REACH)
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Muta. 2: Germ cell mutagenicity, Hazard Category 2
Carc. 1A: Carcinogenicity, Hazard Category 1A
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

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

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