



Safety Data Sheet in accordance with HSNO

Printing date 16.02.2023

Version number 4

Revision: 16.02.2023

SECTION 1: Identification of the substance or mixture and of the supplier

- **Product identifier**
- **Trade name: GC 8**
- **Article number:** 1899900-25, 1899900-26, 98500090-82
- **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 Technologies AB
SE-221 00 Lund
Sweden
+46 46 36 65 00
info.se@alfalaval.com

New Zealand Supplier:
Alfa Laval New Zealand Ltd
PO Box 20424, Te Rapa - Hamilton, - New Zealand
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http://www.alfalaval.co.nz - newzealand.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:**
New Zealand:
Emergency service number: 111
National poisons centre phone: 0800 764 766.

SECTION 2: Hazards identification

- **Classification of the substance or mixture**

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Acute Tox. 5	H303 May be harmful if swallowed.
Acute Tox. 5	H333 May be harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irritation 2A	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.

- **Label elements**

- **GHS label elements**

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

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· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

phenol
formaldehyde, oligomeric reaction products with phenol

· Hazard statements

H225 Highly flammable liquid and vapour.
H303+H333 May be harmful if swallowed or if inhaled.
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.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** The product is not, nor contains, a substance that is, PBT.
- **vPvB:** The product is not, nor contains a substance that is, vPvB.

SECTION 3: Composition/Information on ingredients

· Mixtures

· **Description:** Solvent based adhesive

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Dangerous components:

CAS: 78-93-3 EINECS: 201-159-0	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; Acute Tox. 5, H303	50-<70%
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	1-<2.5%
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	0.1-<0.25%
CAS: 9003-35-4	formaldehyde, oligomeric reaction products with phenol Skin Sens. 1, H317	1-<10%

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

SECTION 4: First aid measures

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.

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.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire fighting measures

Extinguishing media**Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.

Water haze

Foam

Fire-extinguishing powder

Carbon dioxide

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- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
Highly flammable.
Formation of toxic gases is possible during heating or in case of fire.
- **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.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **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.
- **Environmental precautions:**
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:**
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.
- **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

- **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.

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Keep respiratory protective device available.

- **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.

- **Specific end use(s)**

Adhesives

Professional use only.

SECTION 8: Exposure controls/personal protection

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

CAS: 78-93-3 butanone

WES (New Zealand)	Short-term value: 890 mg/m ³ , 300 ppm Long-term value: 445 mg/m ³ , 150 ppm bio
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IOELV (EU)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm
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CAS: 108-95-2 phenol

WES (New Zealand)	Short-term value: 7.7 mg/m ³ , 2 ppm Long-term value: 3.8 mg/m ³ , 1 ppm skin
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IOELV (EU)	Short-term value: 16 mg/m ³ , 4 ppm Long-term value: 8 mg/m ³ , 2 ppm Skin
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- **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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- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**

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

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· **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.

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

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

· **General Information**

· **Colour:** Yellow-brown

· **Odour:** Solvent odour

· **Odour threshold:** Not determined.

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

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· 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.
· 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.
· 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

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- | | |
|---|------|
| · 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 |

SECTION 10: Stability and reactivity

- **Reactivity** No further relevant information available.
- **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.
- **Possibility of hazardous reactions** Develops readily flammable gases/fumes.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **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)
Dermal	LDLo	6,480 mg/kg (Rabbit) (LD50)

CAS: 108-95-2 phenol

Dermal	LDLo	630 mg/kg (Rabbit) (LD50)
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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)
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.

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- **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.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Muta. 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

· Toxicity

· Aquatic toxicity:

CAS: 108-95-2 phenol

LC50 (48 h)	0.00175-67.5 mg/L (Fish) (96 h.)
EC50 (48 h)	3.1 mg/L (Daphnia)
NOEC - No observed effect concentration	0.077 mg/l

· Persistence and degradability

CAS: 108-95-2 phenol

Biodegradability | 62 %

· Bioaccumulative potential

 No further relevant information available.

· Mobility in soil

Low solubility in water.

The product is not expected to be mobile in soil.

· 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.

· Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

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

SECTION 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:

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

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SECTION 14: Transport information

· UN number or ID number	UN1133
· NZS, IMDG, IATA	
· UN proper shipping name	1133 ADHESIVES, containing flammable liquid
· NZS	ADHESIVES, containing flammable liquid
· IMDG, IATA	
· Transport hazard class(es)	
· NZS, IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· Packing group	
· NZS, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	-
· EMS Number:	F-E,S-D
· Stowage Category	A
· Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· NZS	
· 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)

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- **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

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU Regulation (EC) no.1907/2006 (REACH)

· **New Zealand Inventory of Chemicals**

All ingredients are listed.

· **HSNO Approval numbers**

CAS: 78-93-3	butanone	HSR001190
CAS: 108-95-2	phenol	HSR006982
CAS: 120-78-5	di(benzothiazol-2-yl) disulphide	HSR005342

· **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:**

phenol
formaldehyde, oligomeric reaction products with phenol

· **Hazard statements**

H225 Highly flammable liquid and vapour.
H303+H333 May be harmful if swallowed or if inhaled.
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.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

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- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **Chemical safety assessment:** A Chemical Safety Assessment has 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.
H303 May be harmful 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.

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

· **Contact:**

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Norway: info.no@alfalaval.com
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South Africa: info.sa@alfalaval.com
Spain: info.spain@alfalaval.com
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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)

VOC: Volatile Organic Compounds (USA, EU)

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

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 Irrit. 2: Serious eye damage/eye irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

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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