

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

Printing date 24.03.2020




Version number 12

Revision: 24.03.2020

### 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 Lund AB  
Box 74  
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](http://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.  
Muta. 2 H341 Suspected of causing genetic defects.  
STOT SE 3 H336 May cause drowsiness or dizziness.
  - **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**
- 


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

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- **Hazard statements**

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H341 Suspected of causing genetic defects.  
 H336 May cause drowsiness or dizziness.

- **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.

- **Additional information:**

EUH208 Contains di(benzothiazol-2-yl) disulphide. May produce an allergic reaction.

- **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.

### 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	50-100%
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	<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	<0.2%

- **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 persists.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

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- **After eye contact:**  
Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **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.  
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:**  
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.  
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:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use non-sparking tools.  
Dispose contaminated material as waste according to item 13.  
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.

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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 good ventilation/exhaustion at the workplace.
- Ensure that suitable extractors are available on processing machines
- Take precautionary measures against static discharges.
- Prevent formation of aerosols.
- Do not breathe vapour.
- Avoid contact with skin and eyes.
- When using do not eat, drink or smoke.
- See Section 8 for information on personal protection equipment.

#### 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.

#### 7.2 Conditions for safe storage, including any incompatibilities

- Storage:**
- Requirements to be met by storerooms and receptacles:** Protect from sunlight.
- Information about storage in one common storage facility:**
- Keep away from combustible materials.
- Further information about storage conditions:**
- Store in cool, dry conditions in well sealed receptacles.

#### 7.3 Specific end use(s) Adhesives

### SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities:** Use only in well-ventilated areas.

#### 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 <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV
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##### CAS: 108-95-2 phenol

WEL	Short-term value: 16 mg/m <sup>3</sup> , 4 ppm Long-term value: 7.8 mg/m <sup>3</sup> , 2 ppm Sk
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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 exposure systemic	600 mg/kg/day (Worker)

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**CAS: 108-95-2 phenol**

Oral	DNEL - Long Term Systemic Effects	0.4 mg/kg bw/day (Consumer)
Dermal	DNEL - long term systemic effects	1.23 mg/kg bw/day (Worker)
Inhalative	DNEL - Long Term Systemic Effects	8 mg/m3 (Worker)

· **PNECs****CAS: 108-95-2 phenol**

PNEC	0.0077 (freshwater) mg/L
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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
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**CAS: 78-93-3 butanone**

BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
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· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **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.

· **Protection of hands:**

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

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

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therefore to 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:** Full protective clothing.

- **Limitation and supervision of exposure into the environment** Avoid release to the environment.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Pasty
Colour:	Yellow-brown
Odour:	Pungent
Odour threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	80 °C

- **Flash point:** -4 °C

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** Not applicable

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

Lower:	1.8 Vol %
Upper:	11.5 Vol %

- **Oxidising properties** Not applicable.

- **Vapour pressure at 20 °C:** 105 hPa

- **Density at 20 °C:** 0.89 g/cm<sup>3</sup>

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with water:** Slightly soluble.

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· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	4,000 mPas Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	52.5-<102.5 %
<b>VOC (EC)</b>	69.7 %
<b>Solids content:</b>	30.0 %
· <b>9.2 Other information</b>	No further relevant information available.

### 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.
- **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 toxicological effects**

#### · Acute toxicity

##### CAS: 78-93-3 butanone

Oral	LD50	3,300 mg/kg (rat)
	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

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)
	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.		

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

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.

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- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Sensitisation possible through skin contact.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

##### CAS: 108-95-2 phenol

LC50	8.9 mg/L (REG) Test type: Flow-through test Test substance: Fresh water
48-h EC50 (static)	0.00175-67.5 mg/L (Fish) (96 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 (No information available) 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 % (No information available) 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

Slightly soluble.

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 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.

· **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. Disposal must be made according to official regulations.

### SECTION 14: Transport information

· **14.1 UN-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.

· **Danger code (Kemler):**

33

· **EMS Number:**

F-E,S-D

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· <b>Stowage Category</b>	A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	D/E
· <b>Remarks:</b>	Viscous according to ADR § 2.2.3.1.4 (Packaging group III when packed in receptacles not exceeding 450 L capacity)
-----	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Remarks:</b>	Viscous according to 2.3.2.2 of the IMDG code (Packaging group III when packed in receptacles not exceeding 30 L capacity)
-----	
· <b>IATA</b>	
· <b>Remarks:</b>	Viscous according to IATA § 3.3.3.1 (Packaging group III when packed in receptacles not exceeding 30 L capacity)
-----	
· <b>UN "Model Regulation":</b>	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 (CLP)  
EC DIRECTIVE 2008/98/EC (waste)
- **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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· **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](http://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.

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

#### · **Contact:**

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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  
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**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  
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 (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
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

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

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

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