

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/08/2020

Version 14

Reviewed on 09/08/2020


## 1 Identification

- **Product identifier**
- **Trade name: GC6B / GC4**
- **Article number:** 32220-3055-5
- **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
- **Information department:**  
For additional questions regarding safety data sheets please contact your local Alfa Laval Sales Company which you find on [www.alfalaval.com](http://www.alfalaval.com) or in safety data sheet under section 16: Other Informaion
- **Emergency telephone number:** US and Canada: 911

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Self-heat. 1 H251 Self-heating: may catch fire.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.

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

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)
- **Hazard statements**  
H251 Self-heating: may catch fire.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
P280 Wear protective clothing / face protection.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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P413 Store bulk masses greater than 1 kg at temperatures not exceeding 5°C.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:**

	Non-volatile amide (hydrazide)	
CAS: 112945-52-5	Amorphous silica, crystalline free, synthetic	2.5-10%

- **Dangerous components:**

CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700) Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	50-100%
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### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.  
 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- **After inhalation:**

Supply fresh air.  
 Seek medical treatment in case of complaints.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
 If skin irritation continues, consult a doctor.

- **After eye contact:**

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 If symptoms persist consult doctor.

- **After swallowing:**

Wash the mouth with water.  
 If symptoms persist consult doctor.

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

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

No further relevant information available.

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### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Water spray  
Foam  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride (HCl)  
Carbon monoxide and carbon dioxide  
Aldehyde
- **Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Formation of toxic gases is possible during heating or in case of fire.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Absorb liquid components with liquid-binding material.  
Keep away from ignition sources
- **Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
In case of seepage into the ground inform responsible authorities.  
Send for recovery or disposal in suitable receptacles.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)	90 mg/m <sup>3</sup>
CAS: 112945-52-5	Amorphous silica, crystalline free, synthetic	18 mg/m <sup>3</sup>

- **PAC-2:**

CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)	990 mg/m <sup>3</sup>
CAS: 112945-52-5	Amorphous silica, crystalline free, synthetic	100 mg/m <sup>3</sup>

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**· PAC-3:**

CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq 700$ )	5,900 mg/m <sup>3</sup>
CAS: 112945-52-5	Amorphous silica, crystalline free, synthetic	630 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
  - Do not breathe vapour.
  - Avoid contact with skin and eyes.
  - Handle and open container with care.
  - Avoid release to the environment.
  - This material and its container must be disposed of in a safe way.
  - See Section 8 for information on personal protection equipment.
- **Information about protection against explosions and fires:** Substance/product is self ignitable.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
  - Keep away from heat and direct sunlight.
  - Store in a cool location.
- **Information about storage in one common storage facility:** Store away from amines
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)**
  - Adhesives
  - Only for trade users / technical specialists

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Ensure that washing facilities are available at the work place.
  - 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.
- **Breathing equipment:**
  - Not necessary if room is well-ventilated.
  - Filter P2

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Filter P3

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

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 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

· **Limitation and supervision of exposure into the environment**

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

### 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Highly viscous

Color: Light beige

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** >107 °C (>224.6 °F)

· **Flammability (solid, gaseous):** Self-heating: may catch fire.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Not determined.

· **Danger of explosion:** Product does not present an explosion hazard.

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· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidizing properties</b>	Not applicable.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 20 °C (68 °F):</b>	1.24 g/cm <sup>3</sup> (10.3478 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Slightly soluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C (68 °F):</b>	60,000 mPas (Brookfield)
<b>Kinematic:</b>	Not applicable. Not determined.
· <b>Solvent content:</b>	
<b>VOC content:</b>	0.00 %
· <b>Other information</b>	Lowest storage temperature: -18°C Highest storage temperature: 4°C

### 10 Stability and reactivity

- **Reactivity** No further data; see item 7.
- **Chemical stability**  
Stable under normal temperature conditions and under recommended usage and storage.
- **Thermal decomposition / conditions to be avoided:** Exothermic thermal decomposition.
- **Possibility of hazardous reactions**  
Exothermic polymerization.  
130°C
- **Conditions to avoid**  
Keep away from heat.  
Keep away from sources of ignition - No smoking.  
Avoid hardening of large quantities in order to prevent premature reaction (exotherm) with high heat and smoke.
- **Incompatible materials:**  
Reacts with amines.  
Keep away from acids.
- **Hazardous decomposition products:**  
Nitrogen oxides  
Carbon monoxide and carbon dioxide  
Aldehyde  
Hydrogen chloride (HCl)  
No further data; see item 7.

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### 11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

**CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)**

Oral	NOAEL	750 mg/kg (Rat) (2 generations)
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- LD/LC50 values that are relevant for classification:

25068-38-6 Epoxy resin system, Bisphenol-A and epichlorhydrin, reaction product, MW<700:

LD50: 13600 mg/kg, Oral Rat.

LD50: >1200 mg/kg, Dermal Rat.

**CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)**

Dermal	LD50	>1,600 mg/kg (Rat)
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- Primary irritant effect:

- on the skin:

Irritant to skin and mucous membranes.

**CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)**

Irritation of skin	Skin Corrosion/Irritation	4 (Rabbit) (OECD Guideline 404)
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- on the eye:

Irritating effect.

**CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)**

Irritation of eyes	Serious Eye Damage/Irritation	(Rabbit) (OECD Guideline 405)
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- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

- NTP (National Toxicology Program)

None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

- Toxicity

- Aquatic toxicity:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)**

LC50 (96 h) 1.75 mg/L (Fish) (OECD Guideline 203)

EC50 220 mg/L (Algae)

EC50 1.1-3.6 mg/L (Daphnia)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**

**Bioaccumulative potential****CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)**

Bioaccumulation factor &lt;42 (No information available)

- **Mobility in soil** Contact your supplier for more information.
- **Ecotoxicological effects:**
- **Remark:**  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
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.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **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 of together with household garbage. Do not allow product to reach sewage system.  
Hand over to hazardous waste disposers.
- **Uncleaned packagings:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

## 14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN3088

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<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>ADR</b></li>   <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	Self-heating solid, organic, n.o.s. (HYDRAZIDE) 3088 SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDRAZIDE), ENVIRONMENTALLY HAZARDOUS SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDRAZIDE), MARINE POLLUTANT SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDRAZIDE)
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<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>	4.2 Substances liable to spontaneous combustion
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	4.2



<ul style="list-style-type: none"> <li>· <b>ADR, IMDG</b></li> </ul>	4.2 Substances liable to spontaneous combustion
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	4.2



<ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>	4.2 Substances liable to spontaneous combustion
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	4.2



<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>	II
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<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	Environmentally hazardous substance, solid Yes Symbol (fish and tree) Symbol (fish and tree)
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<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	Warning: Substances liable to spontaneous combustion 40 F-A,S-J A
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<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	Not applicable.
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· <b>Transport/Additional information:</b>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	0
· <b>UN "Model Regulation":</b>	UN 3088 SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDRAZIDE), 4.2, II, ENVIRONMENTALLY HAZARDOUS

### 15 Regulatory information

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

· <b>Sara</b>
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· <b>Section 355 (extremely hazardous substances):</b>
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None of the ingredients is listed.

· <b>Section 313 (Specific toxic chemical listings):</b>
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None of the ingredients is listed.

· <b>TSCA (Toxic Substances Control Act):</b>
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CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)	ACTIVE
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· <b>Hazardous Air Pollutants</b>
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None of the ingredients is listed.

· <b>Proposition 65</b>
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· <b>Chemicals known to cause cancer:</b>
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None of the ingredients is listed.

· <b>Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients is listed.

· <b>Chemicals known to cause reproductive toxicity for males:</b>
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None of the ingredients is listed.

· <b>Chemicals known to cause developmental toxicity:</b>
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None of the ingredients is listed.

· <b>Carcinogenic categories</b>
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· <b>EPA (Environmental Protection Agency)</b>
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None of the ingredients is listed.

· <b>TLV (Threshold Limit Value established by ACGIH)</b>
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None of the ingredients is listed.

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
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None of the ingredients is listed.

· <b>GHS label elements</b>
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The product is classified and labeled according to the Globally Harmonized System (GHS).

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**· Hazard pictograms****· Signal word** Danger**· Hazard-determining components of labeling:**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)

**· Hazard statements**

H251 Self-heating: may catch fire.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

**· Precautionary statements**

P280 Wear protective clothing / face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P413 Store bulk masses greater than 1 kg at temperatures not exceeding 5°C.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**LIMITATION OF LIABILITY**

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

Please contact your local Alfa Laval Sales Company for further questions.

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

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Colombia: info.colombia@alfalaval.com  
Croatia: hrvatska.info@alfalaval.com  
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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  
Sweden: info.se@alfalaval.com  
Switzerland: info.mideurope@alfalaval.com  
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· **Date of preparation / last revision** 09/08/2020 / 13

· **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  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists

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## Safety Data Sheet

acc. to OSHA HCS

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EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Self-heat. 1: Self-heating substances and mixtures – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1

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

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