



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

Printing date 04.05.2020

Version number 12

Revision: 04.05.2020

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

- **1.1 Product identifier**
- **Trade name: Alpacon Altreat 400**
- **Article number:** 9850005681, 9850005682
- **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**  
Anti-fouling agent  
Antiscalant in desalination plants
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**  
Alfa Laval Tumba AB  
Hans Stahles väg 7  
S-147 80 Tumba  
Sweden  
+46 8 530 650 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**  
The product is not classified, according to the CLP regulation.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards** No further relevant information available.
- **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:** Polycarboxylate, sodium salt, in water.

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· **Dangerous components:** Void

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor if symptoms persists.
- **After skin contact:** Wash with water and soap.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Treat symptomatically.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **5.2 Special hazards arising from the substance or mixture**  
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.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
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).  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
When using do not eat, drink or smoke.

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Avoid contact with skin and eyes.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:**

· **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.

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

Do not store together with alkalis (caustic solutions).

Store away from metals.

· **Further information about storage conditions:** Store in a cool place.

**7.3 Specific end use(s)**

Antiscalant in desalination plants

Anti-fouling agent

Professional use only.

**SECTION 8: Exposure controls/personal protection**

· **Additional information about design of technical facilities:** No further data; see item 7.

**8.1 Control parameters****Ingredients 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.

**8.2 Exposure controls****Personal protective equipment:**

· **General protective and hygienic measures:** Use only in well-ventilated areas.

**Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.

Filter P2

**Protection of hands:**

Use chemical resistant 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**

Nitrile rubber, NBR

PVC gloves

Chloroprene rubber (CR)

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:** Goggles recommended during refilling

**Body protection:**

Working clothes

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When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is risk of splashing):



Protective work 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:	Fluid
Colour:	Light brown
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value at 20 °C:	8
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##### · Change in condition

Melting point/freezing point:	-20 °C
Initial boiling point and boiling range:	100 °C

· Flash point:	Not applicable.
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· Flammability (solid, gas):	Not applicable.
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· Decomposition temperature:	Not determined.
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· Auto-ignition temperature:	Product is not selfigniting.
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· Explosive properties:	Product does not present an explosion hazard.
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· Explosion limits:	Not applicable.
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· Oxidising properties	Not applicable.
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· Vapour pressure at 20 °C:	23 hPa ≈23 mbar
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· Density at 20 °C:	1.3 g/cm <sup>3</sup>
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· Relative density	Not determined.
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· Vapour density	Not determined.
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· Evaporation rate	Not determined.
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· Solubility in / Miscibility with water:	Fully miscible.
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· Partition coefficient: n-octanol/water:	<-2 log Pow
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##### · Viscosity:

Dynamic at 20 °C:	200 mPas (DIN EN ISO 2555)
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Kinematic:	Not determined.
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Kinematic:	Not determined.
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##### · Solvent content:

Water:	100.0 %
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<b>VOC (EC)</b> <b>· 9.2 Other information</b>	0.00 % No further relevant information available.
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#### SECTION 10: Stability and reactivity

- **10.1 Reactivity** The material is stable under recommended storage and handling conditions.
- **10.2 Chemical stability**  
Stable under normal temperature conditions and under recommended usage and storage.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** None known.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

#### SECTION 11: Toxicological information

##### · 11.1 Information on toxicological effects

##### · Acute toxicity

Oral	LD50	>2,000 mg/kg (rat)
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Based on available data, the classification criteria are not met.

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritation based on test (rabbit) on similar products.
- **Serious eye damage/irritation** No irritation based on test (rabbit) on similar products.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **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:

LC50 (96h)	>100 mg/L (Fish)
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- **12.2 Persistence and degradability** Not easily biodegradable
- **12.3 Bioaccumulative potential** Does not accumulate in organisms
- **12.4 Mobility in soil** Some mobility in soil can be expected
- **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** Dispose of waste in an approved waste disposal facility.
- **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.
- **Uncleaned packaging:**
- **Recommendation:**  
Non contaminated packagings may be reused.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

#### SECTION 14: Transport information

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|--|-----------------|
| · <b>14.1 UN-Number</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>14.2 UN proper shipping name</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>14.3 Transport hazard class(es)</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Void            |
| · <b>14.4 Packing group</b>  |                 |
| · <b>ADR, IMDG, IATA</b>   | Void            |
| · <b>14.5 Environmental hazards:</b>   |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Void            |

#### 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)
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 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.

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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)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

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