



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.09.2018

Version number 11

Revision: 20.09.2018

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

- **1.1 Product identifier**
  - **Trade name: Alpacon Altreat 400**
  - **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.

---

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

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:**  
Polycarboxylat, sodium salt, in water.

CAS: 39612-00-5	2,5-FURANDIONE, POLYMER WITH 2-METHYL-1-PROPENE, SODIUM SALT	25-50%
-----------------	--	--------

(Contd. on page 2)

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

Printing date 20.09.2018

Version number 11

Revision: 20.09.2018

**Trade name: Alpacon Altreat 400**

(Contd. of page 1)

CAS: 7732-18-5  
EINECS: 231-791-2

water, distilled, conductivity or of similar purity

50-100%

- **Dangerous components:** Void
- **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:**  
Wash contaminated clothing before reuse.  
In case of accident by inhalation: remove casualty to fresh air and keep at rest.
- **After inhalation:** Supply fresh air; consult doctor if symptoms persists.
- **After skin contact:** Wash with water and soap.
- **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 doctor.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
- **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:**  
Water spray  
Foam  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **5.2 Special hazards arising from the substance or mixture** Poisonous gases/vapours
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Keep contaminated washing water and dispose of appropriately.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Send for recovery or disposal in suitable receptacles.  
Remove from the water surface (e.g. skim or suck off).  
Dispose of the material collected according to regulations.

(Contd. on page 3)

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

Printing date 20.09.2018

Version number 11

Revision: 20.09.2018

**Trade name: Alpacon Altreat 400**

(Contd. of page 2)

- **6.4 Reference to other sections**  
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** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep container tightly closed.  
Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in a cool place.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **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.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Do not eat, drink, smoke or sniff while working.
- **Respiratory protection:**  
Use suitable respiratory protective device only when aerosol or mist is formed.  
Combined particles and organic fumetype (Filter A-P)  
Filter P2  
Type FFP2
- **Protection of hands:**  
Use chemical resistant protective gloves



Protective gloves

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

- **Material of gloves**  
Nitrile rubber, NBR  
PVC gloves  
Chloroprene rubber (CR)

(Contd. on page 4)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.09.2018

Version number 11

Revision: 20.09.2018

**Trade name: Alpacon Altreat 400**

(Contd. of page 3)

- **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:**



Safety glasses

- **Body protection:**

Working clothes

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

Protective work clothing

### 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

- **Change in condition**

Melting point/freezing point: -20 °C

Initial boiling point and boiling range: 100 °C

- **Flash point:** > 100 °C (DIN 51758)

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

- **Decomposition temperature:** Not determined.

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

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower: Can be 5-15°C below ignition temperature.

Not determined.

Upper: Not determined.

- **Vapour pressure at 20 °C:** 23 hPa  
≈23 mbar

- **Density at 23 °C:** 1.3 g/cm<sup>3</sup>

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with water:** Fully miscible.

(Contd. on page 5)

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

Printing date 20.09.2018

Version number 11

Revision: 20.09.2018

**Trade name: Alpacon Altreat 400**

(Contd. of page 4)

- |  |  |
|--|--|
| · <b>Partition coefficient: n-octanol/water:</b> | <-2 log Pow                                |
| · <b>Viscosity:</b>                              |  |
| Dynamic at 23 °C:                                | 200 mPas (DIN EN ISO 2555)                 |
| Kinematic:                                       | Not determined.                            |
| · <b>Solvent content:</b>                        |  |
| VOC (EC)   | 0.00 %                                     |
| · <b>9.2 Other information</b>                   | No further relevant information available. |

### 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.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Keep away from acids.  
Iron  
Do not store together with alkalis (caustic solutions).  
Store away from light metals.  
Reacts with various metals.
- **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)
------	------	--------------------

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

GB

(Contd. on page 6)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 20.09.2018

Version number 11

Revision: 20.09.2018

Trade name: Alpacon Altreat 400

(Contd. of page 5)

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Not harmful to aquatic organisms. Expected LC/EC 50 value: >100 mg/L.
- **12.2 Persistence and degradability** Not easily biodegradable
- **12.3 Bioaccumulative potential** Does not accumulate in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Dispose of waste in an approved waste disposal facility.
- **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

- |  |                 |
|--|-----------------|
| · <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. |

(Contd. on page 7)



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

Printing date 20.09.2018

Version number 11

Revision: 20.09.2018

**Trade name: Alpacon Altreat 400**

(Contd. of page 6)

**UN "Model Regulation":** Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
EU Regulation (EC) no.1907/2006 (REACH)  
EU regulation (EC) no 1272/2008 (CLP)  
EC DIRECTIVE 2008/98/EC (waste)  
(EC) nr 648/2004 (detergents)
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

www.alfalaval.com

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.

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

#### · **Contact:**

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

Argentina: [alfa.consulta@alfalaval.com](mailto:alfa.consulta@alfalaval.com)

Australia: [australia.info@alfalaval.com](mailto:australia.info@alfalaval.com)

Austria: [info.mideurope@alfalaval.com](mailto:info.mideurope@alfalaval.com)

Belgium: [benelux.info@alfalaval.com](mailto:benelux.info@alfalaval.com)

Bolivia: [alfa.consulta@alfalaval.com](mailto:alfa.consulta@alfalaval.com)

Brazil: [alfalaval.br@alfalaval.com](mailto:alfalaval.br@alfalaval.com)

Bulgaria: [bulgaria.info@alfalaval.com](mailto:bulgaria.info@alfalaval.com)

Canada: [alfacan.info@alfalaval.com](mailto:alfacan.info@alfalaval.com)

Chile: [chile.informacion@alfalaval.com](mailto:chile.informacion@alfalaval.com)

China: [china.info@alfalaval.com](mailto:china.info@alfalaval.com)

Colombia: [info.colombia@alfalaval.com](mailto:info.colombia@alfalaval.com)

Croatia: [hrvatska.info@alfalaval.com](mailto:hrvatska.info@alfalaval.com)

Czech Republic: [czechrepublic.info@alfalaval.com](mailto:czechrepublic.info@alfalaval.com)

Denmark: [info.nordic.dk@alfalaval.com](mailto:info.nordic.dk@alfalaval.com)

Egypt: [alme.marketing@alfalaval.com](mailto:alme.marketing@alfalaval.com)

Estonia: [estonia.info@alfalaval.com](mailto:estonia.info@alfalaval.com)

Finland: [info.fi@alfalaval.com](mailto:info.fi@alfalaval.com)

France: [environnement@alfalaval.com](mailto:environnement@alfalaval.com)

(Contd. on page 8)





## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.09.2018

Version number 11

Revision: 20.09.2018

**Trade name: Alpacon Altreat 400**

(Contd. of page 7)

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  
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

**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.**