

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

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

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

- **1.1 Product identifier**
- **Trade name:** Alpacon 302
- **Article number:** 179630231, 179630222
- **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** Flocculant/ Flocculating agent
- **1.3 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
- **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
- **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**
Eye Dam. 1 H318 Causes serious eye damage.
- **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**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
aluminium sulphate tetradecahydrate
- **Hazard statements**
H318 Causes serious eye damage.
- **Precautionary statements**
P280 Wear eye protection / 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.
P310 Immediately call a POISON CENTER/doctor.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

Trade name: Alpacon 302

(Contd. of page 1)

- **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:

CAS: 7732-18-5	water, distilled, conductivity or of similar purity	50-100%
EINECS: 231-791-2		

· Dangerous components:

CAS: 16828-12-9	aluminium sulphate tetradecahydrate	Eye Dam. 1, H318	10-<25%
EINECS: 233-135-0			

- **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

- **After inhalation:** Supply fresh air; consult doctor if symptoms persist.
- **After skin contact:** If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water and consult a doctor.
Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
- **After swallowing:**
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- **4.2 Most important symptoms and effects, both acute and delayed**
Risk of serious damage to eyes.
Prolonged and/or repeated skin contact may cause irritation.
- **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.

(Contd. on page 3)



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

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

Trade name: Alpacon 302

(Contd. of page 2)

- **Additional information**
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**
Particular danger of slipping on leaked/spilled product.
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Do not breathe vapour.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
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 neutralising agent.
Dispose contaminated material as waste according to item 13.
- **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**
Do not breathe vapour.
Eye wash bottle or emergency eye wash fountain must be found in the work place.
When using do not eat, drink or smoke.
See Section 8 for information on personal protection equipment.
- **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:** Store at 0 - 50°C.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)**
Flocculant/ Flocculating agent
Professional use only.

SECTION 8: Exposure controls/personal protection

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

CAS: 16828-12-9 aluminium sulphate tetradecahydrateWEL Long-term value: 2 mg/m³

(Contd. on page 4)

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

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

Trade name: Alpacon 302

(Contd. of page 3)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls**
Use only in well-ventilated areas.
Eye wash bottle or emergency eye wash fountain must be found in the work place.
- **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.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
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 P2
- **Hand protection**



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
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/face protection**



Tightly sealed goggles

- **Environmental exposure controls** Do not allow to enter sewers/ surface or ground water.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** Yellowish
- **Odour:** Light
- **Odour threshold:** Not determined.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

Trade name: Alpacon 302

(Contd. of page 4)

· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	100 °C
· Lower and upper explosion limit	0.0 g/l
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH at 20 °C	3.1
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	2,700 mPas
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density and/or relative density	
· Density at 20 °C:	1.136 g/cm ³
· Relative density at 20 °C	1.1 kg/l
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Liquid
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Water:	78.0 %
· VOC (EC)	0.00 %
· 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	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

Trade name: Alpacon 302

(Contd. of page 5)

- | | |
|----------------------------------|------|
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

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.
- **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**
High temperature
Do not store together with alkalis (caustic solutions).
- **10.5 Incompatible materials:** None known.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

CAS: 16828-12-9 aluminium sulphate tetradecahydrate		
Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rabbit)
- **Skin corrosion/irritation** Prolonged and / or repeated skin contact may cause irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
Endocrine disrupting properties from <https://edlists.org>

None of the ingredients is listed.

GB

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

Trade name: Alpacon 302

(Contd. of page 6)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 16828-12-9 aluminium sulphate tetradecahydrate

LC50 (48 h)	>1,000 mg/L (Fish)
EC50	>160 mg/L (Daphnia)
NOEC - No observed effect concentration	>160 mg/l (Daphnia) >1,000 mg/l (Fish)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** Non significant accumulation 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 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

yes European waste catalogue

13 01 05* non-chlorinated emulsions

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:

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

14.1 UN number or ID number

ADR, ADN, IMDG, IATA

Not regulated

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Not regulated

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Not regulated

(Contd. on page 8)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

Trade name: Alpacon 302

(Contd. of page 7)

- | | |
|---|-----------------|
| · 14.4 Packing group
· ADR, IMDG, IATA | Not regulated |
| · 14.5 Environmental hazards:
· Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · UN "Model Regulation": | Not regulated |

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)

EU Regulation (EC) no.1907/2006 (REACH)

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not 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

(Contd. on page 9)



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

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

Trade name: Alpacon 302

(Contd. of page 8)

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

H318 Causes serious eye damage.

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

Argentina: alfa.consulta@alfalaval.com

Australia: australia.info@alfalaval.com

Austria: info.mideurope@alfalaval.com

Belgium: benelux.info@alfalaval.com

Bolivia: alfa.consulta@alfalaval.com

Brazil: alfalaval.br@alfalaval.com

Bulgaria: bulgaria.info@alfalaval.com

Canada: alfacan.info@alfalaval.com

Chile: chile.informacion@alfalaval.com

China: china.info@alfalaval.com

Colombia: info.colombia@alfalaval.com

Croatia: hrvatska.info@alfalaval.com

Czech Republic: czechrepublic.info@alfalaval.com

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

Japan: hp.alfajp@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

(Contd. on page 10)



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

Printing date 04.03.2022

Version number 12

Revision: 04.03.2022

Trade name: Alpacon 302

(Contd. of page 9)

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

· **Date of previous version:** 14.04.2020

· **Version number of previous version:** 11

· **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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

GB