

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

Printing date 14.09.2022

Version number 3 (replaces version 2)

Revision: 14.09.2022

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


- **1.1 Product identifier**
- **Trade name:** Alpacon Descalant III
- **Article number:** 905234102
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Professional use only.
- **Application of the substance / the mixture** Cleaning material/ Detergent
- **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](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**  
Eye Irrit. 2 H319 Causes serious eye irritation.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**  
  
GHS07
- **Signal word** Warning
- **Hazard statements**  
H319 Causes serious eye irritation.
- **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.  
P337+P313 If eye irritation persists: Get medical advice/attention.
- **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.

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- **vPvB:** The product is not, nor contains a substance that is, vPvB.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

- **Description:** Mixture: consisting of the following components.

#### · Dangerous components:

CAS: 77-92-9 EINECS: 201-069-1	citric acid	Eye Irrit. 2, H319	30-50%
CAS: 92129-93-6 EINECS: 295-893-9	Fermented whey	Eye Irrit. 2, H319	5-10%

- **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:** Call a POISON CENTER/doctor if you feel unwell.
- **After inhalation:** Supply fresh air; consult doctor if symptoms persist.
- **After skin contact:** Wash with water and soap.
- **After eye contact:**  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If symptoms persist consult a doctor.
- **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**  
Causes serious eye 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.

##### · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Do not breathe vapour.

#### · 6.2 Environmental precautions:

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

Dilute with plenty of water.

Send for recovery or disposal in suitable receptacles.

#### · 6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid contact with eyes.

When using do not eat, drink or smoke.

See Section 8 for information on personal protection equipment.

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

##### · Storage:

· **Requirements to be met by storerooms and receptacles:** No special requirements.

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

Do not store together with alkalis (caustic solutions).

#### · 7.3 Specific end use(s)

Cleaning material/ Detergent

Professional use only.

### 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.

#### · 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.

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- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Take off contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.
- **Respiratory protection:** Not required.
- **Hand protection**  
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  
Natural rubber, NR  
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.
- **Eye/face protection**  
Wear eye/face protection.



Tightly sealed goggles

- **Body protection:** Wear protective clothing.
- **Environmental exposure controls** Avoid release to the environment.

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Colour:** Light yellow
- **Odour:** Acidic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** 0 °C (ca)
- **Boiling point or initial boiling point and boiling range** 100 °C (ca)
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not applicable.
- **Upper:** Not applicable.
- **Flash point:** Not applicable.
- **Decomposition temperature:** Not determined.
- **pH** 1.3 (+/- 0,3)
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic at 20 °C:** 1 mPas
- **Solubility**
- **water:** Easily soluble.

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<ul style="list-style-type: none"> <li>· <b>Partition coefficient n-octanol/water (log value)</b></li> <li>· <b>Vapour pressure:</b></li> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density at 20 °C:</b></li> <li>· <b>Relative density</b></li> <li>· <b>Vapour density</b></li> </ul>	<ul style="list-style-type: none"> <li>Not determined.</li> <li>Not determined.</li> <li>1.15 g/cm<sup>3</sup></li> <li>Not determined.</li> <li>Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b></li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b></li> <li>· <b>Auto-ignition temperature:</b></li> <li>· <b>Explosive properties:</b></li> <li>· <b>Solvent content:</b></li> <li>· <b>Organic solvents:</b></li> <li>· <b>Change in condition</b></li> <li>· <b>Drip point:</b></li> <li>· <b>Oxidising properties</b></li> <li>· <b>Evaporation rate</b></li> </ul>	<ul style="list-style-type: none"> <li>Liquid</li> <li>Product is not selfigniting.</li> <li>Product does not present an explosion hazard.</li> <li>0.0 %</li> <li>Not applicable.</li> <li>Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b></li> <li>· <b>Flammable gases</b></li> <li>· <b>Aerosols</b></li> <li>· <b>Oxidising gases</b></li> <li>· <b>Gases under pressure</b></li> <li>· <b>Flammable liquids</b></li> <li>· <b>Flammable solids</b></li> <li>· <b>Self-reactive substances and mixtures</b></li> <li>· <b>Pyrophoric liquids</b></li> <li>· <b>Pyrophoric solids</b></li> <li>· <b>Self-heating substances and mixtures</b></li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b></li> <li>· <b>Oxidising liquids</b></li> <li>· <b>Oxidising solids</b></li> <li>· <b>Organic peroxides</b></li> <li>· <b>Corrosive to metals</b></li> <li>· <b>Desensitised explosives</b></li> </ul>	<ul style="list-style-type: none"> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> <li>Void</li> </ul>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** The material is stable under recommended storage and handling conditions.
- **10.2 Chemical stability**  
The material is stable under recommended storage and handling conditions.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Do not store together with alkalis (caustic solutions).
- **10.5 Incompatible materials:** Reacts with alkali (lyes).

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- **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:**

<b>CAS: 77-92-9 citric acid</b>		
Oral	LD50	5,040 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

- **Serious eye damage/irritation**

Causes serious eye irritation.

- **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.

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

<b>CAS: 77-92-9 citric acid</b>	
LC50	1,535 mg/L /(24 h) (Daphnia)
LC50 (48 h)	440 mg/L (Fish)

<b>CAS: 92129-93-6 Fermented whey</b>	
LC50 (48 h)	>300 mg/L (Daphnia)
LC50 (96 h)	>1,000 mg/L (Fish)
EC50 (72 h)	>300 mg/L (Algae)

- **12.2 Persistence and degradability**

Easily biodegradable

The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.

<b>CAS: 92129-93-6 Fermented whey</b>	
Biodegradability	>90 % /7 d

- **12.3 Bioaccumulative potential** Does not accumulate in organisms

- **12.4 Mobility in soil** The product is expected to have high mobility in soil.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** The product is not, nor contains, a substance that is, PBT.

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- **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**  
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **yes 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.

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 14*	acids

- **Uncleaned packaging:**
- **Recommendation:**  
Packaging may be reused or recycled after cleaning.  
Disposal must be made according to official regulations.

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	Not regulated
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>	Not applicable. No
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	Not applicable.

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**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.1907/2006 (GB REACH)

EU regulation (EC) no 1272/2008 (GB CLP)

EC DIRECTIVE 2008/98/EC (waste)

**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

[www.alfalaval.com](http://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.

**Relevant phrases**

H319 Causes serious eye irritation.

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**Classification according to Regulation (EC) No 1272/2008**

Expert judgement  
On basis of test data

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

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

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· **Date of previous version: 22.10.2021**

· **Version number of previous version: 2**

· **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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

GB