

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2022


Version 3

Reviewed on 03/21/2022

## 1 Identification

- **Product identifier**
- **Trade name:** Non Silicone Grease
- **Article number:** 582855-01
- **Application of the substance / the mixture** Grease
- **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
- **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:**  
Call CHEMTREC  
+1 703-741-5970 / 1-800-424-9300 CCN 844

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**  

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
Zinc Naphthenate  
1H-benzotriazole-1-methanamine,N,N-bis(2-ethylhexyl)-ar-methyl-
- **Hazard statements**  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves.  
P302+P352 If on skin: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P321 Specific treatment (see on this label).  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards** High pressure injection under skin: local necrosis.

(Contd. on page 2)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2022

Version 3

Reviewed on 03/21/2022

**Trade name: Non Silicone Grease**

(Contd. of page 1)

- **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.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

|                 |  |           |
|-----------------|--|-----------|
| CAS: 18621-94-8 | Dilithium adipate<br>Acute Tox. 4, H302  | 1-<5%     |
| CAS: 68457-79-4 | Zinc dialkyl dithiophosphate<br>Eye Dam. 1, H318; Skin Irrit. 2, H315                                      | 1-<1.7%   |
|                 | Zinc Naphthenate<br>Eye Irrit. 2A, H319; Skin Sens. 1, H317  |           |
| CAS: 94270-86-7 | 1H-benzotriazole-1-methanamine,N,N-bis(2-ethylhexyl)-ar-methyl-<br>Skin Irrit. 2, H315; Skin Sens. 1, H317 | 0.1-<0.2% |
| CAS: 68411-46-1 | Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene                                      | 1-<2.5%   |
| CAS: 1310-66-3  | lithium hydroxide monohydrate<br>Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302                 | 0.1-<1%   |

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Wash contaminated clothing before reuse.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with water and soap.  
Take off immediately all contaminated clothing.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- **Most important symptoms and effects, both acute and delayed**  
Headache  
Dizziness  
Nausea  
Allergic reactions  
High pressure injection under skin: local necrosis.
- **Indication of any immediate medical attention and special treatment needed**  
Information on high pressure equipment:  
Accidental speed injection under the skin of this type of material can cause serious injury. Seek immediately medical attention if an accident of this nature occurs. Even if the wound at the injection site does not look that severe at a first glance, it may lead to malformation or amputation of the affected limb if not treated directly.

US

(Contd. on page 3)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2022

Version 3

Reviewed on 03/21/2022

**Trade name: Non Silicone Grease**

(Contd. of page 2)

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Poisonous gases/vapors  
Aldehyde  
Sulphur dioxide (SO<sub>2</sub>)  
CO<sub>x</sub>
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
In case of fire: Evacuate area.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Avoid contact with spilled material.  
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.
- **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: 1310-66-3 | lithium hydroxide monohydrate | 0.16 mg/m <sup>3</sup> |
|----------------|-------------------------------|------------------------|

**PAC-2:**

|                |                               |                       |
|----------------|-------------------------------|-----------------------|
| CAS: 1310-66-3 | lithium hydroxide monohydrate | 1.8 mg/m <sup>3</sup> |
|----------------|-------------------------------|-----------------------|

**PAC-3:**

|                |                               |                      |
|----------------|-------------------------------|----------------------|
| CAS: 1310-66-3 | lithium hydroxide monohydrate | 74 mg/m <sup>3</sup> |
|----------------|-------------------------------|----------------------|

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Avoid contact with skin.  
After contact with skin, wash immediately with plenty of water

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2022

Version 3

Reviewed on 03/21/2022

Trade name: Non Silicone Grease

(Contd. of page 3)

- **Information about protection against explosions and fires:** No special measures required.
- **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:** Store away from oxidizing agents.
- **Further information about storage conditions:** None.
- **Specific end use(s)** Professional use only.

## 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:**  
The usual precautionary measures for handling chemicals should be followed.  
Be sure to clean skin thoroughly after work and before breaks.  
Use only in well-ventilated areas.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

- **Material of gloves**  
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:** If eye contact is likely, safety glasses with side shields are recommended.
- **Body protection:** Oil resistant protective clothing
- **Limitation and supervision of exposure into the environment** Avoid release to the environment.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|               |                |
|---------------|----------------|
| <b>Form:</b>  | Highly viscous |
| <b>Color:</b> | Red            |

(Contd. on page 5)



## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2022

Version 3

Reviewed on 03/21/2022

**Trade name: Non Silicone Grease**

(Contd. of page 4)

|   |   |
|---|---|
| · <b>Odor:</b>                                    | Characteristic                                |
| · <b>Odor threshold:</b>                          | Not determined.                               |
| · <b>pH-value:</b>                                | Not determined.                               |
| · <b>Change in condition</b>                      |   |
| <b>Melting point/Melting range:</b>               | Undetermined.                                 |
| <b>Boiling point/Boiling range:</b>               | >316 °C (>600.8 °F)                           |
| · <b>Flash point:</b>                             | >204 °C (>399.2 °F)                           |
| · <b>Flammability (solid, gaseous):</b>           | Not determined.                               |
| · <b>Decomposition temperature:</b>               | Not determined.                               |
| · <b>Auto igniting:</b>                           | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                     | Not determined.                               |
| <b>Upper:</b>                                     | Not determined.                               |
| · <b>Oxidizing properties</b>                     | Not applicable.                               |
| · <b>Vapor pressure:</b>                          | <0.013 kPa                                    |
| · <b>Density at 20 °C (68 °F):</b>                | 0.862 g/cm <sup>3</sup> (7.19339 lbs/gal)     |
| · <b>Relative density at 15 °C (59 °F)</b>        | 1   |
| · <b>Vapor density</b>                            | Not applicable.                               |
| · <b>Evaporation rate</b>                         | Not applicable.                               |
| · <b>Solubility in / Miscibility with Water:</b>  | Insoluble.                                    |
| · <b>Partition coefficient (n-octanol/water):</b> | >3.5  |
| · <b>Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | Not applicable.                               |
|   | Not determined.                               |
| <b>Kinematic at 20 °C (68 °F):</b>                | 460 mm <sup>2</sup> /s                        |
| · <b>Other information</b>                        | No further relevant information available.    |

### 10 Stability and reactivity

- **Reactivity** Material is stable under normal conditions.
- **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.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** High temperature
- **Incompatible materials:** Iron
- **Hazardous decomposition products:** No dangerous decomposition products known.

US

(Contd. on page 6)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2022

Version 3

Reviewed on 03/21/2022

Trade name: Non Silicone Grease

(Contd. of page 5)

## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

**CAS: 18621-94-8 Dilithium adipate**

Oral LD50 1,098 mg/kg (Rat)

**CAS: 68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**

Oral LD50 &gt;5,000 mg/kg (Rat)

Dermal LD50 &gt;2,000 mg/kg (Rat)

#### · Primary irritant effect:

**· on the skin:** Sensitizing effect by skin contact is possible with prolonged exposure.**· on the eye:** Irritating effect.**· Sensitization:** Sensitization possible through skin contact.

#### · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

#### · 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.

**· Germ cell mutagenicity** Based on available data, the classification criteria are not met.

## 12 Ecological information

### · Toxicity

#### · Aquatic toxicity:

**CAS: 68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**

LC50 (96 h) &gt;71 mg/L (Fish) (OECD TG 2)

EC50 (48 h) 51 mg/L (Daphnia) (OECD TG 202)

**Zinc Naphthenate**

Acute aquatic toxicity (M-factor) 1 M-factor (No information available)

**· Persistence and degradability** No further relevant information available.

#### · Behavior in environmental systems:

**· Bioaccumulative potential** No further relevant information available.**· Mobility in soil** Low solubility, product floats on water. Absorbs to soil particles.

#### · Results of PBT and vPvB assessment

**· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects** No further relevant information available.

US

(Contd. on page 7)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2022

Version 3

Reviewed on 03/21/2022

Trade name: Non Silicone Grease

(Contd. of page 6)

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void            |
| · <b>UN proper shipping name</b>   |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void            |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |                 |
| · <b>Class</b>   | Void            |
| · <b>Packing group</b>   |                 |
| · <b>DOT, ADR, IMDG, IATA</b>  | Void            |
| · <b>Environmental hazards:</b>  |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Void            |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
EU Regulation (EC) no.1907/2006 (REACH)
- **Sara**

### · **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

### · **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

### · **TSCA (Toxic Substances Control Act):**

|                 |   |        |
|-----------------|---|--------|
| CAS: 18621-94-8 | Dilithium adipate   | ACTIVE |
| CAS: 68411-46-1 | Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | ACTIVE |
| CAS: 68457-79-4 | Zinc dialkyl dithiophosphate  | ACTIVE |

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2022

Version 3

Reviewed on 03/21/2022

**Trade name: Non Silicone Grease**

(Contd. of page 7)

|                 |   |        |
|-----------------|---|--------|
|                 | Zinc Naphthenate  | ACTIVE |
| CAS: 94270-86-7 | 1H-benzotriazole-1-methanamine,N,N-bis(2-ethylhexyl)-ar-methyl- | ACTIVE |

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



· **Signal word** Warning

· **Hazard-determining components of labeling:**

Zinc Naphthenate

1H-benzotriazole-1-methanamine,N,N-bis(2-ethylhexyl)-ar-methyl-

· **Hazard statements**

H317 May cause an allergic skin reaction.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

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

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

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

(Contd. on page 9)





## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/21/2022

Version 3

Reviewed on 03/21/2022

**Trade name: Non Silicone Grease**

(Contd. of page 8)

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

### 16 Other information

**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

**Date of preparation / last revision** 03/21/2022 / 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  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
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  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Acute Tox. 4: Acute toxicity – Category 4

(Contd. on page 10)



## Safety Data Sheet acc. to OSHA HCS

Printing date 03/21/2022

Version 3

Reviewed on 03/21/2022

**Trade name: Non Silicone Grease**

(Contd. of page 9)

Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1

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

— US —