



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

Printing date 30.10.2015

Version number 10

Revision: 30.10.2015

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

- **1.1 Product identifier**
  - **Trade name: Alfa Laval Grease - Bearing Grease**
  - **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** Grease
  - **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**  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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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 CLP regulation.
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P273 Avoid release to the environment.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Description:

The product is a lubricating grease consisting of highly-refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO-extract in accordance with IP 346.

##### Dangerous components:

|                                      |  |         |
|--------------------------------------|--|---------|
|                                      | Zinc Naphthenate<br>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319                         | 1-≤2.4% |
| CAS: 68649-42-3<br>EINECS: 272-028-3 | Zinc dithiophosphate<br>Acute Tox. 2, H330; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 1-≤2.5% |
|                                      | Oil mist including oil smoke<br>substance with a Community workplace exposure limit                          | 0.1-1%  |

• **Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information:

Immediately remove any clothing soiled by the product.

Wash contaminated clothing before reuse.

• **After inhalation:** Supply fresh air; consult doctor if symptoms persists.

##### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.

##### 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 Nausea

#### 4.3 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.

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - Foam
  - Water haze
  - Water spray
  - Fire-extinguishing powder
  - Carbon dioxide
  - Dry sandUse fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
  - Formation of toxic gases is possible during heating or in case of fire.
  - Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Use only in well-ventilated areas.
  - Do not get in eyes, on skin, or on clothing.
- **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).
  - Pick up mechanically.
- **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**
  - Avoid the formation of oil haze.
  - Prevent formation of aerosols.
  - Ensure good ventilation/exhaustion at the workplace.
  - When using do not eat, drink or smoke.
  - See Section 8 for information on personal protection equipment.
  - Avoid repeated skin contact.

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- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Keep container tightly closed.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Store away from flammable substances.
- **7.3 Specific end use(s)**  
Lubricant  
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:**

##### **Oil mist including oil smoke**

|                   |  |
|-------------------|--|
| EXPOSURE CONTROLS | Long-term value: 1 mg/m <sup>3</sup><br>Reference: GESTIS United Kingdom |
|-------------------|--|

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Use only in well-ventilated areas.  
Wash hands before breaks and at the end of work.  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Do not carry product impregnated cleaning cloths in trouser pockets.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**  
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**  
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.  
PVC gloves  
Chloroprene rubber, CR  
Nitrile rubber, NBR

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- **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:** Protective work clothing
- **Limitation and supervision of exposure into the environment**  
Do not allow to enter sewers/ surface or ground water.  
Send for recovery or disposal in suitable receptacles.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Highly viscous

**Colour:** Red

- **Odour:** Weak, characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

**Drip point:** >245 °C

- **Flash point:** > 250 °C (ASTM D92)

- **Flammability (solid, gaseous):** Not determined.

- **Ignition temperature:** >320 °C

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:** 1-10 Vol %

- **Lower:** 1 Vol %

- **Upper:** 10 Vol %

- **Vapour pressure at 20 °C:** <0.5 Pa

- **Density at 15 °C:** 0.9 g/cm<sup>3</sup>

- **Relative density** Not determined.

- **Vapour density at 20 °C** >1 g/cm<sup>3</sup>

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- |   |  |
|---|--|
| · <b>Evaporation rate</b>                         | Not applicable.                            |
| · <b>Solubility in / Miscibility with water:</b>  | Insoluble.                                 |
| · <b>Partition coefficient (n-octanol/water):</b> | >6 log POW                                 |
| · <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                   | Not applicable.                            |
| <b>Kinematic:</b>                                 | Not applicable.                            |
| · <b>Solvent content:</b>                         |  |
| <b>Organic solvents:</b>                          | 0.0 %                                      |
| · <b>9.2 Other information</b>                    | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
- **10.4 Conditions to avoid**  
Direct sun light.  
High heat  
Keep away from sources of ignition - No smoking.
- **10.5 Incompatible materials:** Store away from oxidising agents.
- **10.6 Hazardous decomposition products:**  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide  
Hydrocarbons

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity**

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | >5000 mg/kg (rat)    |
| Dermal | LD50 | >5000 mg/kg (rabbit) |

- **68649-42-3 Zinc dithiophosphate**

|            |          |                      |
|------------|----------|----------------------|
| Inhalative | LC50/4 h | 1-1.5 mg/l (daphnia) |
|------------|----------|----------------------|

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Prolonged and / or repeated skin contact combined with poor personal hygiene may cause inflammation of the skin in the form of dermatitis, eczema and oil acne.

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Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.

- **Serious eye damage/irritation** Contact with eyes may result in mild irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Product contains mineral oils of types shown to be noncarcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.
- **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:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

|                               |                                |
|-------------------------------|--------------------------------|
| LL50 Aquatic - Acute toxicity | 10-100 mg/L (Algae)            |
|                               | Anmärkning: Sannolikt skadliga |
|                               | 10-100 mg/L (Fish)             |
|                               | Anmärkning: Sannolikt skadliga |

#### Zinc Naphthenate

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

- **12.2 Persistence and degradability** Not easily biodegradable

#### • 12.3 Bioaccumulative potential

Contain components with the potential to bioaccumulate.

Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.

#### • 12.4 Mobility in soil

The product is not expected to be mobile in soil.

Low solubility, product floats on water. Absorbs to soil particles.

#### • Additional ecological information:

##### • General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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.

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· **12.6 Other adverse effects**

Spills may form a film on the water surface. This film may cause physical damage to aquatic organisms and reduce oxygen transfer.

### 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. Hand over to hazardous waste disposers.

· **European waste catalogue**

Dangerous Waste

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.

|           |  |
|-----------|--|
| 12 00 00  | WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS                     |
| 12 01 00  | wastes from shaping and physical and mechanical surface treatment of metals and plastics                     |
| 12 01 12* | spent waxes and fats   |
| 15 00 00  | WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED |
| 15 01 00  | packaging (including separately collected municipal packaging waste)   |
| 15 01 02  | plastic packaging  |
| 15 00 00  | WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED |
| 15 01 00  | packaging (including separately collected municipal packaging waste)   |
| 15 01 10* | packaging containing residues of or contaminated by dangerous substances                                     |

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA**

Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA**

Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class**

Void

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- |  |                 |
|--|-----------------|
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                          | Void            |
| · <b>14.5 Environmental hazards:</b><br>· <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.1907/2006 (REACH)  
EU regulation (EC) no 1272/2008 (CLP)  
EC DIRECTIVE 2008/98/EC (waste)  
TSCA (Toxic Substance Control Act) - All chemical components in this material are included in, or are exceptions from the TSCA listing.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

Please contact your local Alfa Laval Sales Company for further questions:  
[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**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H411 Toxic to aquatic life with long lasting effects.
- **Department issuing MSDS:** MACC -Materials & Chemistry Centre

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**Contact:**

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

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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)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 2: Acute toxicity, Hazard Category 2  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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