



Safety Data Sheet

acc. to OSHA HCS

Printing date 09/29/2021

Version 13

Reviewed on 09/29/2021

1 Identification

- **Product identifier**
- **Trade name: Alfa Laval Lubricating Paste**
- **Article number:** 55433601
- **Application of the substance / the mixture** Grease
- **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
USA supplier:
Distribution Centre Americas AMDC
200 South Park Boulevard
Greenwood, Indiana 46143
Tel switchboard: +13178022266
- **Information department:**
For additional questions regarding safety data sheets please contact your local Alfa Laval Sales Company which you find on 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**
The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **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.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**
Mixture: consisting of the following components.

| | | |
|--------------------------------|---|---------|
| CAS: 7446-26-6 | dizinc pyrophosphate | 2.5-<5% |
| · Dangerous components: | | |
| CAS: 1305-62-0 | calcium dihydroxide Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335 | 20-<50% |

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CAS: 1314-13-2 | zinc oxide

1-<2.5%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Wash with water and soap.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water and consult a doctor.
- **After swallowing:**
Wash the mouth with water.
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
Treat symptomatically

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Carbon dioxide
Alcohol resistant foam
Fire-extinguishing powder
Water spray
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
Ensure adequate ventilation
Do not get in eyes, on skin, or on clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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.
- **Reference to other sections**
See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

| | | |
|----------------|---------------------|----------------------|
| CAS: 1305-62-0 | calcium dihydroxide | 15 mg/m ³ |
| CAS: 1314-13-2 | zinc oxide | 10 mg/m ³ |

· **PAC-2:**

| | | |
|----------------|---------------------|-----------------------|
| CAS: 1305-62-0 | calcium dihydroxide | 240 mg/m ³ |
| CAS: 1314-13-2 | zinc oxide | 15 mg/m ³ |

· **PAC-3:**

| | | |
|----------------|---------------------|-------------------------|
| CAS: 1305-62-0 | calcium dihydroxide | 1,500 mg/m ³ |
| CAS: 1314-13-2 | zinc oxide | 2,500 mg/m ³ |

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure adequate ventilation

See Section 8 for information on personal protection equipment.

When using do not eat, drink or smoke.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.

· **Information about storage in one common storage facility:** Store away from oxidizing agents.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in dry conditions.

· **Specific end use(s)**

Grease

Professional use only.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** Use only in well-ventilated areas.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

| | |
|---|---|
| CAS: 1305-62-0 calcium dihydroxide | |
| PEL | Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction |
| REL | Long-term value: 5 mg/m ³ |
| TLV | Long-term value: 5 mg/m ³ |

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CAS: 1314-13-2 zinc oxide

| | |
|-----|---|
| PEL | Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction and fume |
| REL | Short-term value: 10** mg/m ³ Long-term value: 5 mg/m ³ Ceiling limit value: 15* mg/m ³ *dust only **fume |
| TLV | Short-term value: 10* mg/m ³ Long-term value: 2* mg/m ³ *as respirable fraction |

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not carry product impregnated cleaning cloths in trouser pockets.
Wash hands before breaks and at the end of work.
Take off contaminated clothing.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **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**
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 protection:** Goggles recommended during refilling.
- **Body protection:** Wear protective clothing.
- **Limitation and supervision of exposure into the environment**
Do not allow to enter sewers/ surface or ground water.

9 Physical and chemical properties

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

| | |
|--------|-------|
| Form: | Pasty |
| Color: | White |
- **Odor:** Characteristic
- **Odor threshold:** Not determined.
- **pH-value:** Not applicable.

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| | |
|---|--|
| · Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 317 °C (602.6 °F) |
| Drip point: | >130 °C (>266 °F) |
| · Flash point: | Not applicable. |
| · Flammability (solid, gaseous): | Not applicable. |
| · Decomposition temperature: | Not determined. |
| · Auto igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| · Oxidizing properties | Not applicable. |
| · Vapor pressure: | Not determined. |
| · Density at 20 °C (68 °F): | 1.1 g/cm ³ (9.1795 lbs/gal) (DIN 51757) |
| · Relative density | Not determined. |
| · Vapor density | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Solvent content: | |
| VOC content: | 0.00 % |
| · Other information | 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:**
To avoid thermal decomposition do not overheat.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**
High temperature
Store away from oxidizing agents.
- **Incompatible materials:** Reacts with strong oxidizing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

- LD/LC50 values that are relevant for classification:

CAS: 1305-62-0 calcium dihydroxide

| | | |
|--------|------|---------------------------------------|
| Oral | LD50 | >2,000 mg/kg (Rat) (OECD Test 425) |
| Dermal | LD50 | >2,500 mg/kg (Rabbit) (OECD Test 402) |

CAS: 7446-26-6 dizinc pyrophosphate

| | | |
|------|------|--------------------|
| Oral | LD50 | >2,500 mg/kg (Rat) |
|------|------|--------------------|

CAS: 1314-13-2 zinc oxide

| | | |
|------------|------------|--------------------|
| Oral | LD50 | >5,000 mg/kg (Rat) |
| Inhalative | LC50 (4 h) | 5.7 mg/L (Rat) |

- Primary irritant effect:

- on the skin:

| | | |
|--------------------|---------------------------|-----------------------|
| Irritation of skin | Skin Corrosion/Irritation | 0 (Rabbit) (OECD 404) |
|--------------------|---------------------------|-----------------------|

CAS: 1314-13-2 zinc oxide

| | | |
|--------------------|---------------------------|----------------------------|
| Irritation of skin | Skin Corrosion/Irritation | 0 (Rabbit) (OECD test 404) |
|--------------------|---------------------------|----------------------------|

- on the eye:

Irritating effect.

| | | |
|--------------------|-------------------------------|-----------------------|
| Irritation of eyes | Serious Eye Damage/Irritation | 0 (Rabbit) (OECD 405) |
|--------------------|-------------------------------|-----------------------|

CAS: 1314-13-2 zinc oxide

| | | |
|--------------------|-------------------------------|----------------------------|
| Irritation of eyes | Serious Eye Damage/Irritation | 0 (Rabbit) (OECD test 405) |
|--------------------|-------------------------------|----------------------------|

- Sensitization: No sensitizing effects known.

- Additional toxicological information:

- 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:

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

CAS: 1305-62-0 calcium dihydroxide

| | |
|-------------|-------------------------------------|
| LC50 (96 h) | 50.6 mg/L (Fish) |
| EC50 (48 h) | 49.1 mg/L (Daphnia) (OECD Test 202) |

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| | |
|--|-------------------------------------|
| EC50 (72 h) | 184.57 mg/L (Algae) (OECD Test 201) |
| NOEC - No observed effect concentration | 32 mg/l (Daphnia) |
| CAS: 7446-26-6 dizinc pyrophosphate | |
| EC50 (48 h) | 26 mg/L (Daphnia) |
| CAS: 1314-13-2 zinc oxide | |
| LC50 (96 h) | 6-10 mg/L (Fish) |
| EC50 (48 h) | 2-10 mg/L (Daphnia) |
| EC50 (72 h) | 0.17 mg/L (Algae) |

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil**
The product is not expected to be mobile in soil.
Low solubility, product floats on water. Absorbs to soil particles.
- **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.
- **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.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Hand over to hazardous waste disposers.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- | | |
|----------------------------------|---|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | UN3077 |
| · UN proper shipping name | |
| · IMDG, IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dizinc pyrophosphate) |

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· **Transport hazard class(es)**

· **DOT, IMDG**



· **Class**

9 Miscellaneous dangerous substances and articles

· **Label**

9

· **ADR, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles

· **Label**

9

· **Packing group**

· **DOT, ADR, IMDG, IATA**

III

· **Environmental hazards:**

Product contains environmentally hazardous substances: dizinc pyrophosphate

· **Marine pollutant:**

Yes

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special marking (IATA):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Miscellaneous dangerous substances and articles

· **Hazard identification number (Kemler code):**

90

· **EMS Number:**

F-A,S-F

· **Stowage Category**

A

· **Stowage Code**

SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **IMDG**

· **Limited quantities (LQ)**

5 kg

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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|---|

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| | |
|---------------------------------|------|
| · UN "Model Regulation": | Void |
|---------------------------------|------|

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
99/45/EC
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): |
|--|

| |
|-----------------------------|
| CAS: 1314-13-2 zinc oxide |
|-----------------------------|

| |
|---|
| · TSCA (Toxic Substances Control Act): |
|---|

| |
|---------------------------------------|
| All components have the value 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) |
|--|

| |
|-----------------------------|
| CAS: 1314-13-2 zinc oxide |
|-----------------------------|

| |
|----------|
| D, I, II |
|----------|

| |
|--------------------------------------|
| · 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** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

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

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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 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

· **Department issuing SDS:** Alfa Laval Sustainability Environment

· **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

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

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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

· **Date of preparation / last revision** 09/29/2021 / 12

· **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)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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