

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

Printing date 29.09.2021

Version number 13

Revision: 29.09.2021

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

- **1.1 Product identifier**
- **Trade name:** Alfa Laval Lubricating Paste
- **Article number:** 55433601
- **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 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 2 H411 Toxic to aquatic life with long lasting effects.
- **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**



GHS09

- **Signal word** Void
- **Hazard statements**
H411 Toxic 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:** 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: 1305-62-0 EINECS: 215-137-3 Reg.nr.: 01-2119475151-45	calcium dihydroxide ----- Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	20-<50%
CAS: 7446-26-6 EINECS: 215-263-9 Reg.nr.: 01-2120768152-56	dizinc pyrophosphate ----- Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-<5%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32	zinc oxide ----- Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-<2.5%

- **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 persists.
- **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:**
Rinse the mouth with water.
If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.

- **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:**

- Carbon dioxide
- Alcohol resistant foam
- Fire-extinguishing powder
- Water spray

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

- During heating or in case of fire poisonous gases are produced.

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- **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.

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
Do not get in eyes, on skin, or on clothing.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 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.
- **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 adequate ventilation
See Section 8 for information on personal protection equipment.
When using do not eat, drink or smoke.
- **7.2 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 oxidising agents.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in dry conditions.
- **7.3 Specific end use(s)**
Grease
Professional use only.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

CAS: 1305-62-0 calcium dihydroxide

WEL	Short-term value: 4* mg/m ³ Long-term value: 5 1* mg/m ³ *resprable fraction
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· DNELs		
CAS: 1305-62-0 calcium dihydroxide		
Inhalative	DNEL - Acute, Local effects	4 mg/m ³ (Worker)
	DNEL - Long term, Systemic effects	1 mg/m ³ (Worker)
CAS: 1314-13-2 zinc oxide		
Oral	DNEL - Long term, Systemic effects	0.83 mg/m ³ /day (Consumer)
Dermal	DNEL - Long term, Systemic effects	83 mg/kg/day (Consumer)
		83 mg/kg/day (Worker)
Inhalative	DNEL - Long term, Systemic effects	2.5 mg/kg/day (Consumer)
		5 mg/kg/day (Worker)
· PNECs		
CAS: 1305-62-0 calcium dihydroxide		
PNEC	0.49 mg/L (Freshwater) (Extrapolation) Assessment factor: 100	
CAS: 1314-13-2 zinc oxide		
PNEC	0.0206 mg/L (Freshwater) Estimated value, freshwater 117.8 mg/L (Freshwater sediment) Estimated value 0.0061 mg/L (Saltwater) Estimated value 56.5 mg/L (Saltwater sediment) Estimated value 0.052 mg/L (Water treatment plant) Estimated value 35.6 mg/L (Soil) Estimated value	

· **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.

· **Individual protection measures, such as 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.

· **Respiratory protection:** Not necessary if room is well-ventilated.

· **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

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.

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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/face protection** Goggles recommended during refilling
- **Body protection:** Wear protective clothing.
- **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**

- **Physical state** Solid
- **Colour:** White
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** 317 °C
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Decomposition temperature:** Not determined.
- **pH** Not applicable.
- **Viscosity:**
- **Kinematic viscosity** Not applicable.
- **Dynamic:** Not applicable.
- **Solubility**
- **water:** Not miscible or difficult to mix.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure:** Not determined.
- **Density and/or relative density**
- **Density at 20 °C:** 1.1 g/cm³ (DIN 51757)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Particle characteristics** See item 3.

· **9.2 Other information**

- **Appearance:**
- **Form:** Paste
- **Important information on protection of health and environment, and on safety.**
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent content:**
- **VOC (EC)** 0.00 %
- **Change in condition**
- **Drip point:** >130 °C
- **Oxidising properties** Not applicable.

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· **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
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

* **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** Material is stable under normal conditions.
- **10.2 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.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
High temperature
Store away from oxidising agents.
- **10.5 Incompatible materials:** Reacts with strong oxidising agents.
- **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: 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)
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CAS: 1314-13-2 zinc oxide

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

· Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Irritation of skin	Skin Corrosion/Irritation	0 (Rabbit) (OECD 404) Negative
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CAS: 1314-13-2 zinc oxide

Irritation of skin	Skin Corrosion/Irritation	0 (Rabbit) (OECD test 404)
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· Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Irritation of eyes	Serious Eye Damage/Irritation	0 (Rabbit) (OECD 405) Negative
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CAS: 1314-13-2 zinc oxide

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

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 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)
EC50 (72 h)	184.57 mg/L (Algae) (OECD Test 201) Pseudokirchneriella subcapitata
NOEC - No observed effect concentration	32 mg/l (Daphnia) Exp Time: 14 days

CAS: 7446-26-6 dizinc pyrophosphate

EC50 (48 h)	26 mg/L (Daphnia)
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CAS: 1314-13-2 zinc oxide

LC50 (96 h)	6-10 mg/L (Fish)
EC50 (48 h)	2-10 mg/L (Daphnia)

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EC50 (72 h)

0.17 mg/L (Algae)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **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.

- **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**

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**

Hand over to hazardous waste disposers.

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.

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

- **Uncleaned packaging:**

- **Recommendation:**

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 or ID number**

- **ADR, IMDG, IATA**

UN3077

- **14.2 UN proper shipping name**

- **ADR**

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dizinc pyrophosphate)

- **IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dizinc pyrophosphate)

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· **14.3 Transport hazard class(es)**

· **ADR, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **IMDG**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 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)

· **14.6 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.

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **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

· **Transport category**

3

· **Tunnel restriction code**

-

· **IMDG**

· **Limited quantities (LQ)**

5 kg

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

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	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIZINC PYROPHOSPHATE), 9, III

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)

99/45/EC

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

· **Directive 2012/18/EU**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **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 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

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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

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008 Expert judgement**Department issuing SDS:** Alfa Laval Sustainability Environment**Contact:**

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· **Date of previous version:** 12.06.2020

· **Version number of previous version:** 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

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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