

Safety Data Sheet



According to Regulation (EC) No 1907/2006, Annex II
and Commission Regulation (EU) 2020/878

Version 2.0: 15.02.2021

ZAP Grease COMPLEX Red EP 1

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

1.1. Product Identifier:

ZAP Grease COMPLEX Red EP 1

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Lithium Complex lubricating grease.

1.3. Details of the supplier of the safety data sheet:

ZAP LUBES SIA,
5 VISKALU STREET
LV-1026 RIGA, LATVIA
Phone: + 371 67543642
e-mail: sales@zap-grease.com
www.zap-grease.com

1.4. Emergency telephone number:

State Fire And Rescue Service Of Latvia: +371 112
Valsts Toksikoloģijas Centrs (National Toxicology Center), **Saindēšanās un zāļu informācijas centrs**
(Poisoning and Drug Information Centre)
Address: Hipokrāta 2, LV-1038 Riga, Latvia,
Phone: +371 67042473, service is available 24 hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified.

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms	Not applicable.
Signal word	Not applicable.
Hazard Statements	Not applicable.
Precautionary statements	Not applicable.
Voluntary precautionary advices	
- in general	Keep out of reach of children (P102).
- for prevention	Wash skin thoroughly after handling (P264). Wear protective gloves/protective clothing/eye protection/face protection (P280).
- in reaction	Take off contaminated clothing (P362).
- at storage	None
- for disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations (P501).
Supplemental label elements	EUH210 Safety Data Sheet available on request.

2.3. Other hazards

PBT, vPvB, SVHC or ED criteria Based on the manufacturer's data, the mixture does not contain any ingredients:
 - which meet the PBT or vPvB criteria as laid down in Annex XIII to Regulation (EC) No 1907/2006,
 - or which were included in the list established in accordance with Article 59(1) for having endocrine disrupting properties,
 - or which were identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605,
 at a concentration equal to or greater than 0.1 % by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture Description Lithium Complex lubricating grease.

Substance name	%, weight	REACH Registration No.	EINECS/CAS No	Classification according to regulation (EC) No 1272/2008 (CLP)
Distillates (petroleum), hydrotreated heavy paraffinic	≤ 65	01-2119484627-25-0035	265-157-1/64742-54-7	Not classified.
Residual oils (petroleum), solvent-dewaxed	≤ 40	01-2119480472-38-0013	265-166-0 / 64742-62-7	Not classified.
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts	≤ 1	01-2119964477-23	273-527-9 / 68988-45-4	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411

NOTES:

All mineral oils are considered to be severely refined and not considered to be carcinogenic under IARC. All the oils in this product contain < 3% DMSO extract (IP 346).

For a full text of H-statements: See SECTION 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Take off immediately all contaminated clothing and shoes that may cause / already cause skin contact with the product.

Emergency medical attention is required when there is:

- unconsciousness,
- stopping breathing or sudden breathing problems,
- has severe injury or severe bleeding that is life-threatening,
- signs of a heart attack (sudden pain behind the sternum),
- signs of a stroke (sudden weakness of one side),
- other **life-threatening situations**.

See also: <https://www.nmpd.gov.lv/lv/kad-zvanit-113>.

After first aid, monitor the condition of the affected persons.

Delayed effects after exposure are unlikely.

In case of accident, seek medical advice immediately.

In all cases of doubt, or when symptoms persist, seek medical attention.

If unconscious, place in recovery position and get medical attention immediately.

Wash contaminated clothing before reuse, clean shoes or discard them.

Inhalation

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.

Skin contact

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Eye contact

Remove contact lenses before flushing, if any and easy to do. Immediately flush eyes with plenty of clean water keeping eyelids apart. Get medical attention if eye irritation persists.

Ingestion DO NOT INDUCE VOMITING. Get medical attention. Never give anything by mouth to an unconscious or convulsing person.
If nausea or irritations do not appear after ingestion, give medical carbon in water slurry (3 tablespoons in one litre water).

4.2. Most important symptoms and effects, both acute and delayed

Prolonged inhalation of unusually high concentrations of product mist or vapours may cause nose and lung irritation, headache, nausea and drowsiness.
Prolonged or repeated skin contact may produce allergic reactions such as redness, rash and dermatitis.
Prolonged eye contact may cause irritation, redness and discomfort.
If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhoea may occur.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing media Use water fog, dry powder, foam or carbon dioxide. Use water to cool fire-exposed containers. If the leak or spill has not ignited, use water fog to disperse the vapours and to provide protection for personnel attempting to stop the leak.
Unsuitable Extinguishing media Water jet.

5.2. Special hazards arising from the substance or mixture

Smoke, carbon monoxide, carbon dioxide and other products of incomplete combustion.

5.3. Advice for firefighters

Special protective equipment for firefighters The nature of special protective equipment required will depend upon the size of the fire, the degree of confinement of the fire and the natural ventilation available. Fire-resistant clothing and self-contained breathing apparatus is recommended for fires in confined spaces and poorly ventilated areas. Full fireproof clothing is recommended for any large fires involving this product
Extinguishing procedures In case of fire - Always call the fire brigade. Small fires, such as those capable of being fought with a hand-held extinguisher, can normally be fought by a person who has received instruction on the hazards of flammable liquid fires. Fires that are beyond that stage should only be tackled by people who have received hands-on training. Ensure escape path's available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2. Environmental precautions** Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.
- 6.3. Methods and material for containment and cleaning up** Clean-up spill as soon as possible while following the requirements for exposure control/personal protection. Use sand and sawdust to clean. Use appropriate cleaning techniques such as absorption by fire resistant material or pumping.
- 6.4. Reference to other sections** See Section 8 for more information on personal protective equipment. See Section 13 for waste disposal practices.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling** Avoid prolonged or repeated contact with skin. Avoid breathing of vapours. Wash hands after handling. Do not smoke.
- 7.2. Conditions for safe storage, including any incompatibilities** Keep containers closed when not in use. Avoid exposure to heat. Store at ambient temperature. Do not store near explosive substances, compressed, liquefied or pressurized gases, flammable liquids or oxidizing agents.
- 7.3. Specific end use(s)** In accordance with the relevant product specification.

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters**
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|------------------------------------|---|
| Occupational exposure limits | Union occupational exposure limit values do not refer to any components of a mixture specified in Section 3.
Please refer to National occupational exposure limits, if applicable. |
| Recommended monitoring procedures: | <i>In household conditions:</i> Not applicable.
<i>Working in professional / industrial conditions:</i>
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Management standards such as the following should be considered:
EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values),
EN 482 (Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents). |
| Control banding recommendations: | Not applicable. |
- 8.2. Exposure controls**
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|---|---|
| Appropriate engineering controls | Use in well-ventilated areas. |
| Individual protection measures, such as personal protective equipment | Follow the good occupational and personal hygiene practices to control product exposures. |

Eye/face protection	Safety goggles.
Hand protection	Neoprene gloves. Time for wearing out the gloves material >30 minutes.
Skin/body protection	Exposed employees should exercise reasonable personal cleanliness. This includes cleansing exposed skin areas several times daily with soap and water and laundering or dry cleaning soiled work clothing. Long sleeve shirt is recommended. Use chemically protective boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.
Respiratory protection	No respiratory protection is normally required. If vapours or mist is generated, use approved respirator as appropriate.
Thermal hazards	Not applicable.
Hygiene measures	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Environmental exposure control	May form an oil film leading to de-oxygenation of water and possible harmful effect on aquatic life. Product can penetrate soil until reaching the surface of ground water (in the presence of ground water).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Semi-solid
Colour	Red
Odour	Petroleum
Odour threshold	Not applicable.
pH	Not applicable.
Freezing/Pour point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	> 230 °C (for base oil; Pensky-Martens Closed Cup)
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exposure limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	< 1 g/ml (20 °C)
Solubility	Soluble in hydrocarbons, insoluble in water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Kinematic viscosity	165 mm ² /s at 40 °C (for base oil)
Explosive properties	None
Oxidising properties	None

9.2. Other Information

Dropping point	> 240 °C
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SECTION 10: Stability and reactivity

10.1. Reactivity: Not expected to enter reactions.

- 10.2. Chemical stability:** This product is considered chemically stable at normal storage and handling conditions.
- 10.3. Possibility of hazardous reactions:** None
- 10.4. Conditions to avoid:** This product is normally stable at moderately elevated temperatures and pressures.
- 10.5. Incompatible materials:** Strong oxidizing agents, strong acids.
- 10.6. Hazardous decomposition products:** None known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Based on data available for base oils: the classification criteria are not met. LD ₅₀ oral (rats) > 5000 mg/kg (OECD 401) LD ₅₀ dermal (rabbits) > 5000 mg/kg (OECD 402) LC ₅₀ inhalation (rats) > 5 mg/l/4h (OECD 403)
Skin corrosion/irritation	Not expected to cause skin corrosion or irritation. Repeated or prolonged contact with skin may defat or dry the skin resulting in discomfort and dermatitis.
Serious eye damage/irritation	Not expected to cause serious eye damage or irritation. May cause eyes irritation. May cause minimal irritation or redness if accidental eye contact occurs.
Respiratory or skin sensitisation	Not expected to be respiratory or skin sensitizer. Prolonged or repeated skin contact as from clothes wetted with material may cause dermatitis.
Germ cell mutagenicity	No data available to indicate product or any components present at levels greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogenic by IARC, ACGIH, NTP or OSHA. Nota L – meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound using IP 346.
Reproductive toxicity	Not expected to damage specific target organs. Based on data for similar substances.
STOT-single exposure	Not expected to damage specific target organs. Based on data for similar substances.
STOT-repeated exposure	Not expected to damage specific target organs. Based on data for similar substances.
Aspiration hazard	The mixture does not meet the criteria for classification.
Other information	If material is misted or if vapours are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

11.2 Information on other hazards

Endocrine disrupting properties:	Based on the manufacturer's data, the mixture does not contain any ingredients: - which were included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, - or which were identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1 % by weight.
Other information:	No data available.

SECTION 12: Ecological information

12.1 Toxicity	<p>This product is of relatively low toxicity – based on data of product components. LC₅₀ for base oil (96 hours for fish) is > 100 mg/l (OECD 203) EC₅₀ for base oils (48 hours for Daphnia) is > 10 000 mg/l (OECD 202)</p> <p>EC₅₀ for base oils (72-96 hours for algae or other aquatic plants) > 100 mg/l (OECD 201) NOEL/21 days (aquatic invertebrates) > 10 mg/l (OECD 211) NOEL/72 h (algae) > 100 mg/l NOEL/10 min (micro organisms) > 1.93 mg/l (DIN 38412, DIN 38409)</p>
12.2 Persistence and degradability	This product is not readily biodegradable. Information about base oil-Inherent biodegradability < 22 % after 28 days (OECD 301B).
12.3 Bioaccumulative potential	Partition coefficient n-octanol/water (Log K _{ow}) for base oils is > 4.0 - indicates possible bioaccumulation.
12.4 Mobility in soil	Low, due to low water solubility. Spillage may penetrate the soil causing ground water contamination.
12.5 Results of PBT and vPvB assessment	This product is not and does not contain any substance that is potential PBT or vPvB.
12.6 Endocrine disrupting properties	<p>Based on the manufacturer's data, the mixture does not contain any ingredients:</p> <ul style="list-style-type: none"> - which were included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, - or which were identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605, <p>at a concentration equal to or greater than 0.1 % by weight.</p>
12.7 Other adverse effects	May form an oil film leading to deoxygenation of water and possible harmful effect on aquatic life.

SECTION 13: Disposal consideration

13.1 Waste treatment methods	Dispose of empty lubricant containers at approved for such wastes places. Follow all state or local regulations and requirements for disposal, recycle or reclaiming of waste oils and petroleum products.
Waste Code	13 08 99* in accordance with European Waste Catalogue (E. W. C.)
Other information:	<p>Do not allow product to reach water bodies or soil.</p> <p>Do not pierce, open or weld the uncleaned container.</p> <p>Residues can cause an explosion.</p> <p>Do not empty into drains, store in the original container or in an oil-resistant container, or in a container rented / supplied by a waste collection company.</p>

SECTION 14: Transport information

14.1 UN number or ID number	None
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	None
14.4 Packing group	Not applicable.
14.5 Environmental hazards	

ADR	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
ADN	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.

14.6 Special precautions to user None

14.7 Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of The European Parliament And Of The Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) No 1272/2008 of The European Parliament And Of The Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

15.2 Chemical safety assessment Not available.

Other information:

REACH annexes:

Annex XIV:	Not applicable.
Annex XVII:	Not applicable.
Regulation 649/2015/EU:	Not applicable.
Regulation 1005/2009/EC:	Not applicable.
Regulation 850/2004/EC:	Not applicable.
Seveso III, Directive 2012/18/EU:	Not applicable.

SECTION 16: Other information

Recommendations for training:

In accordance with Article 35 of the REACH Regulation: „Workers and their representatives shall be granted access by their employer to the information provided in accordance with Articles 31 and 32 in relation to substances or mixtures that they use or may be exposed to in the course of their work.“

Staff working with this product should be trained about the possible risks of personal protective equipment and first aid. All first aid instructions must be in accordance with safety, health and environmental regulations. Observe all safety and hygiene requirements for handling chemicals.

Written first aid instructions must be freely available at the workplace.

Indication of which of the methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 was used for the purpose of classification.

Classification in accordance with regulation (EC) No 1272/2008:	Evaluation method used:
None.	Classification according to calculation procedure.

Revision Information

Version	2.0
Revision date	15.02.2021
Revision No.	1
Revised sections	A complete update of the whole SDS has been performed in accordance with the requirements of Regulation (EU) 2020/878.
Replaces version	24.02.2017

List of abbreviations

PBT	Persistent, Bioaccumulative, and Toxic
vPvB	very Persistent and very Bioaccumulative
ED	endocrine disrupting
SVHC	Substances of Very High Concern
DMSO	Dimethyl sulfoxide
LD ₅₀	Lethal Dose 50 (median concentration of a toxicant that will kill 50% of the test animals within a designated period)
LC ₅₀	Lethal Concentration 50 (concentration in water having 50% chance of causing death to aquatic life)
EC ₅₀	Half maximal effective concentration
NOEL	No-Observed-Effect Level
STEL	Short Term Exposure Limit
TWA	Time-weighted average
OECD	Organisation for Economic Cooperation and Development
IARC	International Agency for Research on Cancer
ACCGIH	American Conference of Governmental Industrial Hygienists
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
Log Kow	Logarithm (base 10) of the octanol-water partition coefficient
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG	International Maritime Dangerous Goods (code)
IATA	International Air Transport Association

A list of relevant hazard statements and hazard classes

H315	Causes skin irritation
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects
Eye Dam. 1	Serious eye damage - Hazard Category 1
Skin Irrit. 2	Skin irritation - Hazard Category 2
Aquatic Chronic 2	Aquatic hazard (long-term) - Hazard Category 2

This information is the best of our current knowledge, and is believed to be correct as of the date hereof, and is intended to describe the product only in terms of health and safety and environmental requirements. Since the conditions of use are outside our control, any recommendations and suggestions are made without guarantee.

End of safety data sheet