

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

<b>1.1. Product Identifier</b>	<b>ZAP Grease RED</b>
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>	Lithium-calcium 12-hydroxystearate lubricating grease Use of the product should be with the safety instructions when working in this sheet. Distribution of substances/mixtures. Formulation and repackaging of substances and mixtures. This product should not be used for purposes other than those recommended.
<b>1.3. Details of the supplier of the safety data sheet</b>	<b>ZAP LUBES SIA,</b> 5 VISKALU STREET LV-1026 RIGA, LATVIA Phone: + 371 67543642 e-mail: <a href="mailto:sales@zap-grease.com">sales@zap-grease.com</a> <a href="http://www.zap-grease.com">www.zap-grease.com</a>
<b>1.4. Emergency telephone number</b>	State Fire And Rescue Service Of Latvia: +371 112 Valsts Toksikoloģijas Centrs (National Toxicology Center), <b>Saindēšanās un zāļu informācijas centrs</b> (Poisoning and Drug Information Center) Address: Hipokrāta 2, LV-1038 Riga, Latvia, Phone: +371 67042473, service is available 24 hours

## SECTION 2: Hazards identification

<b>2.1. Classification of the substance or mixture</b>	This product is not classified as dangerous under the criteria of Regulation (EC) No 1272/2008.
<b>2.2. Label elements</b>	
Hazard pictograms	Not applicable.
Signal word	Not applicable.
Hazard statements	Not applicable.
Precautionary statements	Not applicable.
Supplemental label elements	EUH210 - Safety data sheet available on request
<u>Voluntary</u> precautionary advices:	
- in general	If medical advice is needed, have product container or label at hand (P101). Keep out of reach of children (P102).
- for prevention	Wash eyes and skin thoroughly after handling (P264). Wear protective gloves/protective clothing/eye protection/face protection (P280).
- in reaction	Take off contaminated clothing and wash before reuse (P362).
- at storage	None.
- for disposal	Dispose of contents/container to in accordance with local / national regulations (P501).
<b>2.3. Other hazards</b>	The product does not contain a substance which meets the criteria for PBT and vPvB in accordance with Annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Mixture Description: lithium-calcium 12-hydroxystearate lubricating grease containing highly-refined mineral oil.

Substance name	REACH Registration No.	EINECS/CAS No.	% (m/m)	Classification (EC) No 1272/2008
Lubricating oils (petroleum), C24-50, solvent-extd. Dewaxed, hydrogenated	01-2119489969-06	309-877-7/ 101316-72-7	<90	Not classified.
Zinc dialkyl dithiophosphate	**	EC: 272-028-3 CAS: 68649-42-3	<1	Skin Irrit. 2, H315 Eye Dam. 1, H318, Aquatic Chronic 2, H411

All of mineral oils are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3 % extractables by the IP 346 test. ECHA List Numbers are not listed and do not have any legal significance rather they are purely technical identifiers and are displayed only for information. For a full text of H-statements: See section 16.

\*\* Not available or not currently required registration under REACH.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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	Flush eyes with plenty of water for several minutes. 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.
Need of immediate medical attention	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
-------------------------------	--

Unsuitable extinguishing media:	protection for personnel attempting to stop the leak.
<b>5.2. Special hazards arising from the substance or mixture</b>	Water jet
<b>5.3. Advice for firefighters</b>	None
Special protective equipment for fire fighters	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

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	Personal Protective Equipment must be worn as per the requirements for petroleum products handling. Ventilate area if spilled in confined space or other poorly ventilated areas. Evacuate people without adequate PPE.
<b>6.2. Environmental precautions</b>	Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.
<b>6.3. Methods and material for containment and cleaning up</b>	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.
<b>6.4. Reference to other sections</b>	

## SECTION 7: Handling and storage

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

## SECTION 8: Exposure controls/personal protection

<b>8.1. Control parameters</b>	
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.
<b>8.2. Exposure controls</b>	
Engineering Controls	Use in well ventilated areas.
Respiratory protection	Under normal use conditions, respirator is not usually required.

	If vapour or mist is generated, use approved respirator as appropriate.
Eye 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.
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	Homogeneous paste
Odour	Specific
Colour	Red
pH	Not applicable
Freezing Point	Not applicable
Boiling point/Boiling range, °C	Not applicable
Flashpoint, °C, COC	240
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density (air = 1)	Not applicable
Relative Density at 20 °C, g/ml	< 1
Solubility	Soluble in organic solvents; non-soluble in water
Partition coefficient: n-octanol/water	No data available
Auto ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity, cSt	220 cSt 40 °C (for base oil)
Explosive properties	None
Oxidising properties	None

### 9.2. Other information

Dropping point, °C	173
--------------------	-----

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Not expected to enter into reactions.
<b>10.2. Chemical stability</b>	The product is considered chemically stable at normal storage and handling conditions.
<b>10.3. Possibility of hazardous reactions</b>	None
<b>10.4. Conditions to avoid</b>	This product is normally stable at moderately elevated temperatures and pressures.
<b>10.5. Incompatible materials</b>	Strong oxidizing agents.
<b>10.6. Hazardous decomposition products</b>	Smoke, carbon monoxide and other products of incomplete combustion.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Eye contact toxicity	Not expected to cause eye irritation. Base oil tested in accordance with Method OECD 405. May cause minimal irritation or redness if accidental eye contact occurs.
Skin contact toxicity	Acute dermal toxicity: LD <sub>50</sub> (rabbits) for base oil: > 2 g/kg - Base oil tested in accordance with OECD 404. Not expected to be skin irritant. Prolonged or repeated skin contact as from clothing wetted with material may cause dermatitis.
Ingestion toxicity	Acute oral toxicity: LD <sub>50</sub> (rats) for base oil: > 5 g/kg - Base oil tested in accordance with Method OECD 405 - low toxicity. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Inhalation toxicity	If material is misted or if vapours are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
Sensitization	This product is not a sensitizer.
Chronic effects	
Carcinogenicity	This product is not carcinogenic – DMSO extract < 3 %.
Mutagenicity	This product is not mutagenic.
Toxicity for reproduction	This product is not toxic for reproduction. Base oil tested in accordance with procedure OECD 421 or 422.
Other Toxicity Effects	No data available

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	LC <sub>50</sub> for base oil (96 hours for fish) is > 100 mg/l LC <sub>50</sub> for base oils (48 hours for Daphnia) is > 10,000 mg/l Very low toxicity
<b>12.2. Persistence and degradability</b>	This product is not readily biodegradable. Information about base oil-Inherent biodegradability < 22 % after 28 days (OECD 301B).
<b>12.3. Bioaccumulative potential</b>	Log K <sub>OW</sub> for base oils is in the range 3,9 – 6,0. Partition coefficient n-octanol/water. A value Log K <sub>OW</sub> > 3,0 indicates possible bioaccumulation.
<b>12.4. Mobility in soil</b>	Low, due to low water solubility. Spillage may penetrate the soil causing ground water contamination.
<b>12.5. Results of PBT and vPvB assessment</b>	This product is not and does not contain any substance that is potential PBT or vPvB.
<b>12.6. Other adverse effects</b>	May form an oil film leading to deoxygenation of water and possible harmful effect on aquatic life.

## SECTION 13: Disposal considerations

<b>13.1. Waste treatment methods</b>	Dispose 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)

## SECTION 14: Transport information

<b>14.1. UN number</b>	none
------------------------	------

<b>14.2. UN proper shipping name</b>	Not applicable
<b>14.3. Transport hazard class(es)</b>	none
<b>14.4. Packing group</b>	Not applicable
<b>14.5. Environmental hazards</b>	ADR/RID - not regulated as dangerous goods IMDG - not regulated as dangerous goods IATA - not regulated as dangerous goods
<b>14.6. Special precautions for user</b>	None
<b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b>	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) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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** None

## SECTION 16: Other information

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.
Key literature references and sources for data	IUCLID Data Sheet for base oil – European commission-European Chemical Bureau.
Revision Data	New SDS according to Commission Regulation (EU) 2015/830.
Revised sections	-
Date of issue	20.07.2015
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 Aquatic Chronic 2 - Aquatic hazard (long-term) - Category 2 Eye Dam. 1 - Serious eye damage/eye Irritation - Category 1 Skin Irrit. 2 - Skin corrosion/irritation - 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*