

Safety Data Sheet



According to Regulation (EC) No 1907/2006, Annex II
and Commission Regulation (EU) 2015/830

Version 1.0: 2016-09-28

ZAP GREASE EXTREME VG 220

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING				
1.1 Product Identifier		ZAP GREASE EXTREME VG 220		
1.2 Relevant identified uses of the substance or mixture and uses advised against		Calcium sulfonate complex lubricating grease The use of this product should be in accordance with the guidelines for safe handling in this safety data sheet. Distribution of substances/mixtures Formulation and repackaging of substances and mixtures This product should not be used for other uses than advised for.		
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 - in accordance with Regulation (EC) No 1272/2008		This product is not classified as dangerous under the criteria of Regulation 1272/2008/EC		
2.2 Label Elements				
Hazard pictograms		Not applicable.		
Signal word		Not applicable.		
Hazard statements		Not applicable.		
Precautionary statements		Not applicable.		
Voluntary 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		None		
- in reaction		None		
- at storage		None		
- for disposal		Dispose of contents/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		The product does not contain any 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		Calcium sulfonate complex lubricating grease		
Substance name	%, weight	REACH Registration №	EINECS/CAS №	Classification (EC) № 1272/2008
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated	30 - 95	01-2119489969-06	309-877-7/101316-72-7	Not classified
Hydrotreated heavy naphthenic oil (petroleum)	10 - 55	01-2119467170-45	265-155-0/64742-52-5	Not classified
Mineral oil	20 - 50	*	mixture	Not classified
Reaction products of benzeneamine, N-phenyl- with nonene (branched)	0.5 - 1.5	01-2119488911-28	Conf.	Aquatic Chronic 4, H413
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	0.5 - 1.5	01-2119493628-22	270-608-0	Eye Dam. 1, H318 Skin Corr. 2, H315 Aquatic Chronic 2, H411
Naphtenic acids, zinc salts	0.1 - 0.5	*	234-409-2	Eye Dam. 2, H319

Revision No. 1
28.09.2016

				Flam. Liq. 3, H226
Zinc 2-ethylhexoate	0.1 - 0.5	*	205-251-1	Eye Dam. 2, H319
O,O,O-triphenylphosphorothioate	0.1 - 0.5	*	209-909-9	Repr. 2, H361fd Aquatic Chronic 4, H413
Notes:				
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 contain < 3% DMSO extract (IP 346).				
Index Numbers acc. to Annex VI to CLP (1272/2008) do not have any legal significance; rather they are purely technical identifiers and are displayed only for information.				
* - not available or substance is not currently required for 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 liter water).			
4.2 Most important symptoms and effects, both acute and delayed	Prolonged inhalation of unusually high concentrations of product mist or vapors 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 diarrhea 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.			

<u>For emergency responders</u>	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".
<u>6.2 Environmental Precautions</u>	Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.
<u>6.3 Methods and Material for Containment and Cleaning up</u>	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 absorption by fire resistant material or pumping.
<u>6.4 Reference to other sections</u>	See Section 8 for more information on personal protective equipment needed. See Section 13 for waste disposal practices.
SECTION 7. HANDLING AND STORAGE	
<u>7.1 Precautions for safe handling</u>	Avoid prolonged or repeated contact with skin. Avoid breathing of vapours. Wash hands after handling. Do not smoke.
<u>7.2 Conditions for safe storage, including any incompatibilities</u>	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.
<u>7.3 Specific end use(s)</u>	In accordance with the relevant product specification.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 Control Parameters	
<u>Occupational exposure limits</u>	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.
8.2 Exposure controls	
<u>Appropriate engineering controls</u>	Use in well-ventilated areas.
<u>Individual protection measures, such as personal protective equipment</u>	Follow the good occupational and personal hygiene practices to control product exposures.
<u>Eye/face protection</u>	Safety goggles
<u>Hand protection</u>	Neoprene gloves. Time for wearing out the gloves material >30 minutes.
<u>Skin /Body protection</u>	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.
<u>Respiratory protection</u>	No respiratory protection is normally required. If vapour or mist is generated, use approved respirator as appropriate.
<u>Thermal hazards</u>	Not available
<u>Hygiene measures</u>	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.
<u>Environmental exposure control</u>	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 Colour Odour Odour threshold pH Freezing/Pour point, °C Boiling point and boiling range, °C Flash point, °C (Pensky-Martens Closed Cup) Evaporation rate Flammability (solid, gas)	Semi-solid Brown Petroleum Not applicable Not applicable Not applicable Not applicable >260 for base oil No data available Not applicable

Upper/lower flammability or exposure limits	Not applicable
Vapour pressure	Not applicable
Vapour density (air=1)	Not applicable
Relative density at 20°C, g/ml	< 1
Solubility	Soluble in hydrocarbons, insoluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature, °C	Not applicable
Decomposition temperature, °C	Not applicable
Kinematic viscosity, cSt	220 cSt at 40°C (for base oil)
Explosive properties	None
Oxidising properties	None
9.2 Other information	
Dropping point, °C	305
SECTION 10. STABILITY AND REACTIVITY	
10.1 Reactivity	Not expected to enter into 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 about toxicological effects	
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) NOEL/21 days (aquatic invertebrates) > 10 mg/l (OECD 211) NOEL/72 h (algae) > 100 mg/l NOEL/10 min (microorganisms) > 1.93 mg/l (DIN 38412, DIN 38409)
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 sensitization	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.
Carcinogenic	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	If material is misted or if vapours are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
Other information	None
SECTION 12. ECOLOGICAL INFORMATION	
12.1 Toxicity	This product is of relatively low toxicity – based on data of product components. LC ₅₀ for base oil (96 hours for fish) > 100 mg/l (OECD 203) EC ₅₀ for base oils (48 hours for Daphnia) > 10 000 mg/l (OECD 202)

	EC ₅₀ 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 (microorganisms) > 1.93 mg/l (DIN 38412, DIN 38409)
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 Other adverse effects	May form an oil film leading to deoxygenation of water and possible harmful effect on aquatic life.
SECTION 13. DISPOSAL CONSIDERATIONS	
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.)
SECTION 14. TRANSPORT INFORMATION	
14.1 UN 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 for user	None
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	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	Not available
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.
Revision information Revision by sections Issue date	New SDS prepared according to Commission Regulation (EU) 2015/830. 2016-09-28
List of abbreviations PBT vPvB	Persistent, Bioaccumulative, and Toxic very Persistent and very Bioaccumulative

LD50	Lethal Dose 50 (median concentration of a toxicant that will kill 50% of the test animals within a designated period)
LC50	Lethal Concentration 50 (concentration in water having 50% chance of causing death to aquatic life)
EC50	Half maximal effective concentration
NOEL	No-Observed-Effect Level
STOT	Specific Target Organ Toxicity
TWA	Time-weight average
STEL	Short Term Exposure Limit
<u>A list of relevant hazard statements and hazard classes</u>	<p>H226 - Flammable liquid and vapour H315 - Causes skin irritation H318 - Causes serious eye damage H319 - Causes serious eye irritation H361fd - Suspected of damaging fertility or the unborn child H411 - Toxic to aquatic life with long lasting effects H413 - May cause long lasting harmful effects to aquatic life</p> <p>Flam. Liq. 3 - Flammable liquids, Hazard Category 3 Eye Dam. 1 - Serious eye damage - Hazard Category 1 Eye Irrit. 2 - Serious eye irritation - Hazard Category 2 Skin Irrit. 2 - Skin irritation - Hazard Category 2 Repr. 2 - Reproductive toxicity, Hazard Category 2 Aquatic Chronic 2 - Aquatic hazard (long-term) - Hazard Category 2 Aquatic Chronic 4 - Aquatic hazard (long-term) - Hazard Category 4</p>
<p>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</p>	

End of safety data sheet