# ZAP GREASE EXTREME VG 460

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| **SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING** | |
| **1.1 Product Identifier** | **ZAP GREASE EXTREME VG 460** |
| **1.2 Relevant identified uses of the substance or mixture and uses advised against** | Calcium sulfonate complex lubricating grease<br>The use of this product should be in accordance with the guidelines for safe handling in this safety data sheet.<br>Distribution of substances/mixtures<br>Formulation and repackaging of substances and mixtures<br>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**,<br>5 VISKALU STREET<br>LV-1026 RIGA, LATVIA<br>Phone: + 371 67543642<br>e-mail: sales@zap-grease.com<br>www.zap-grease.com |
| **1.4. Emergency Telephone Number** | State Fire And Rescue Service Of Latvia: +371 112<br>Valsts Toksikoloģijas Centrs (National Toxicology Center), **Saindēšanās un zāļu informācijas centrs** (Poisoning and Drug Information Centre)<br>Address: Hipokrāta 2, LV-1038 Riga, Latvia,<br>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) № 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).<br>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 |
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| Residual oils (petroleum), solvent-refined, dewaxed | 20 - 95 | 01-2119480472-38-0020 | 265-166-0/64742-62-7 | Not classified |
| Distillates (petroleum), hydrotreated heavy naphthenic | 20 - 95 | 01-2119467170-45 | 265-155-0/64742-52-5 | Not classified |
| Mineral oil | 20 - 50 | * | mixture | Not classified |

**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

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| are displayed only for information.<br>* - 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 vapours may cause nose and lung irritation, headache, nausea and drowsiness.<br>Prolonged or repeated skin contact may produce allergic reactions such as redness, rash and dermatitis.<br>Prolonged eye contact may cause irritation, redness and discomfort.<br>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. |
| **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 |

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| | appropriate cleaning techniques such absorption by fire resistant material or pumping. |
| **6.4 Reference to other sections** | See Section 8 for more information on personal protective equipment needed. 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 in the vicinity of 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** | |
| **Occupational exposure limits** | Union occupational exposure limit values do not refer to any components of a mixture specified in Section 3.<br>Please refer to National occupational exposure limits, if applicable. |
| **8.2 Exposure controls** | |
| **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 vapour or mist is generated, use approved respirator as appropriate. |
| **Thermal hazards** | Not available |
| **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.<br>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 | Brown |
| Odour | Petroleum |
| Odour threshold | Not applicable |
| pH | Not applicable |
| Freezing/Pour point, °C | Not applicable |
| Boiling point and boiling range, °C | Not applicable |
| Flash point, °C (Pensky-Martens Closed Cup) | >260 for base oil |
| Evaporation rate | No data available |
| Flammability (solid, gas) | 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 |

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| Decomposition temperature, °C<br>Kinematic viscosity, cSt<br>Explosive properties<br>Oxidising properties | Not applicable<br>460 cSt at 40°C (for base oil)<br>None<br>None |
| **9.2 Other information**<br>Dropping point, ° C | <br>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<br>$LD_{50}$ oral (rats) > 5000 mg/kg (OECD 401)<br>$LD_{50}$ dermal (rabbits) > 5000 mg/kg (OECD 402)<br>$LC_{50}$ inhalation (rats) > 5 mg/l/4h (OECD 403)<br>NOEL/21 days (aquatic invertebrates) > 10 mg/l (OECD 211)<br>NOEL/72 h (algae) > 100 mg/l<br>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 date for similar substances. |
| **STOT-single exposure** | Not expected to damage specific target organs. Based on date for similar substances. |
| **STOT-repeated exposure** | Not expected to damage specific target organs. Based on date 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.<br>$LC_{50}$ for base oil (96 hours for fish) > 100 mg/l (OECD 203)<br>$EC_{50}$ for base oils (48 hours for Daphnia) > 10 000 mg/l (OECD 202)<br>$EC_{50}$ for base oils (72-96 hours for algae or other aquatic plants) > 100 mg/l (OECD 201)<br>NOEL/21 days (aquatic invertebrates) > 10 mg/l (OECD 211)<br>NOEL/72 h (algae) > 100 mg/l<br>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) |

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| **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**<br><br>**Waste code** | 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.<br>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<br>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)<br>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**<br>**Revision by sections**<br>**Issue date** | New SDS prepared according to Commission Regulation (EU) 2015/830.<br><br>2016-09-28 |
| **List of abbreviations**<br>**PBT**<br>**vPvB**<br>**LD50**<br><br>**$LC_{50}$**<br><br>**$EC_{50}$**<br>**NOEL**<br>**STOT** | <br>Persistent, Bioaccumulative, and Toxic<br>very Persistent and very Bioaccumulative<br>Lethal Dose 50 (median concentration of a toxicant that will kill 50% of the test animals within a designated period)<br>Lethal Concentration 50 (concentration in water having 50% chance of causing death to aquatic life)<br>Half maximal effective concentration<br>No-Observed-Effect Level<br>Specific Target Organ Toxicity |

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| **TWA**<br>**STEL** | Time-weight average<br>Short Term Exposure Limit |
| **Full text of H-phrases** | - |
| 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**