

**GRA-MoS GREASE**

Creation date 23. June 2014  
Revision date 13. November 2017 Version 2.0

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

- 1.1. Product identifier**  
Substance / mixture GRA-MoS GREASE  
Number 400g - 1 35607/3kg - 1 35608
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
mixture's intended use Grease.  
Disapproved uses of mixture For professional use only.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
Name or trade name RETECH, s.r.o.  
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00  
Czech Republic  
Identification number (ID) 25018205  
Phone +420327596428  
E-mail info@retech.cz  
Web address www.retech.com
- Competent person responsible for the safety data sheet**  
Name RETECH, s.r.o.  
E-mail info@retech.cz
- 1.4. Emergency telephone number**  
National Health Service (NHS) 111  
National poisoning information centre Scotland, NHS 24: 111  
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)

**SECTION 2: Hazards identification**

- 2.1. Substance or mixture classification**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.  
Full text of all classifications and H-phrases is given in the section 16.
- 2.2. Label elements**  
**Supplemental information**  
EUH 210 Safety data sheet available on request.
- 2.3. Other hazards**  
Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

**SECTION 3: Composition/information on ingredients**

- 3.2. Mixtures**  
**Chemical characterization**  
Mixture of substances and additives specified below.  
**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

| Identification numbers           | Substance name  | Content in % weight | Classification according to Regulation (EC) No 1272/2008           | Note. |
|----------------------------------|---|---------------------|--|-------|
| CAS: 68649-42-3<br>EC: 272-028-3 | Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts | 1,5                 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411 |       |

Full text of all classifications and H-phrases is given in the section 16.

**GRA-MoS GREASE**

|               |                   |         |     |
|---------------|-------------------|---------|-----|
| Creation date | 23. June 2014     |         |     |
| Revision date | 13. November 2017 | Version | 2.0 |

**SECTION 4: First aid measures****4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**Inhalation**

Terminate the exposure immediately; move the affected person to fresh air.

**Skin contact**

Wash with plenty of soap and water.

**Eye contact**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

**Ingestion**

DO NOT INDUCE VOMITING! Provide medical treatment.

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

not available

**Skin contact**

not available

**Eye contact**

not available

**Ingestion**

not available

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

not available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, foam, powder.

**Unsuitable extinguishing media**

Not defined.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment for work.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

**6.3. Methods and material for containment and cleaning up**

Place the spilled product mechanically in the properly closed containers and dispose of it according to the section 13.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**GRA-MoS GREASE**

|               |                   |         |     |
|---------------|-------------------|---------|-----|
| Creation date | 23. June 2014     |         |     |
| Revision date | 13. November 2017 | Version | 2.0 |

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

**7.3. Specific end use(s)**

not available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

none

**8.2. Exposure controls**

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

**Eye/face protection**

Protective goggles.

**Skin protection**

Hand protection: Protective gloves resistant to the product. PVC. Other protection: protective workwear.

**Respiratory protection**

Under regular circumstances it is not necessary.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|  |                    |
|--|--------------------|
| Appearance                                   | paste              |
| Physical state                               | liquid at 20°C     |
| color  | grey / black       |
| Odour  | without fragrance  |
| Odour threshold                              | data not available |
| pH   | data not available |
| Melting point/freezing point                 | >200 °C            |
| Initial boiling point and boiling range      | data not available |
| Flash point                                  | >200 °C            |
| Evaporation rate                             | data not available |
| Flammability (solid, gas)                    | data not available |
| Upper/lower flammability or explosive limits |                    |
| flammability limits                          | data not available |
| explosive limits                             | data not available |
| Vapour pressure                              | data not available |
| Vapour density                               | data not available |
| Relative density                             | data not available |
| Solubility(ies)                              |                    |
| solubility in water                          | insoluble          |
| solubility in fats                           | data not available |
| Partition coefficient: n-octanol/water       | data not available |
| Auto-ignition temperature                    | >200 °C            |
| Decomposition temperature                    | data not available |
| Viscosity                                    | data not available |

**GRA-MoS GREASE**

|               |                   |         |     |
|---------------|-------------------|---------|-----|
| Creation date | 23. June 2014     |         |     |
| Revision date | 13. November 2017 | Version | 2.0 |

|                      |                    |
|----------------------|--------------------|
| Explosive properties | data not available |
| Oxidising properties | data not available |
| data not available   |                    |

**9.2. Other information**

|                              |                             |
|------------------------------|-----------------------------|
| Density                      | 0.86-0.89 g/cm <sup>3</sup> |
| ignition temperature         | data not available          |
| Product is not selfigniting. |                             |

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is stable under normal conditions.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

not available

**10.4. Conditions to avoid**

Heat.

**10.5. Incompatible materials**

Protect against strong oxidizing agents.

**10.6. Hazardous decomposition products**

Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

**Skin corrosion/irritation**

Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data the classification criteria are not met.

**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.

**Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

**GRA-MoS GREASE**

|               |                   |         |     |
|---------------|-------------------|---------|-----|
| Creation date | 23. June 2014     |         |     |
| Revision date | 13. November 2017 | Version | 2.0 |

**Aspiration hazard**

Based on available data the classification criteria are not met.

**SECTION 12: Ecological information****12.1. Toxicity****Acute toxicity**

Data for the mixture are not available.

**12.2. Persistence and degradability**

The mixture is partially biodegradable.

**12.3. Bioaccumulative potential**

No bioaccumulation potential.

**12.4. Mobility in soil**

Not available.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Other adverse effects**

Not available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. The product must not be disposed of with municipal waste.

**Legislation of waste**

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Code of type of waste**

16 03 06 organic wastes other than those mentioned in 16 03 05

**Packaging waste type code**

15 01 10 packaging containing residues of or contaminated by dangerous substances

15 01 02 plastic packaging

**SECTION 14: Transport information****14.1. UN number**

Not subject to ADR.

**14.2. UN proper shipping name**

not available

**14.3. Transport hazard class(es)**

not available

**14.4. Packing group**

not available

**14.5. Environmental hazards**

not available

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not available

**GRA-MoS GREASE**

|               |                   |         |     |
|---------------|-------------------|---------|-----|
| Creation date | 23. June 2014     |         |     |
| Revision date | 13. November 2017 | Version | 2.0 |

**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 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th 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, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

**15.2. Chemical safety assessment**

not available

**SECTION 16: Other information****A list of standard risk phrases used in the safety data sheet**

|      |  |
|------|--|
| H315 | Causes skin irritation.                          |
| H318 | Causes serious eye damage.                       |
| H411 | Toxic to aquatic life with long lasting effects. |

**A list of additional standard phrases used in the safety data sheet**

|         |   |
|---------|---|
| EUH 210 | Safety data sheet available on request. |
|---------|---|

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

|                  |   |
|------------------|---|
| ADR              | European agreement concerning the international carriage of dangerous goods by road               |
| BCF              | Bioconcentration Factor   |
| CAS              | Chemical Abstracts Service  |
| CLP              | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL             | Derived no-effect level   |
| EC               | Identification code for each substance listed in EINECS   |
| EC <sub>50</sub> | Concentration of a substance when it is affected 50% of the population                            |
| EINECS           | European Inventory of Existing Commercial Chemical Substances                                     |
| EmS              | Emergency plan  |
| EU               | European Union  |
| IATA             | International Air Transport Association   |
| IBC              | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals       |
| IC <sub>50</sub> | Concentration causing 50% blockade  |
| ICAO             | International Civil Aviation Organization   |
| IMDG             | International Maritime Dangerous Goods  |

**GRA-MoS GREASE**

|               |                   |         |     |
|---------------|-------------------|---------|-----|
| Creation date | 23. June 2014     | Version | 2.0 |
| Revision date | 13. November 2017 |         |     |

|                     |   |
|---------------------|---|
| INCI                | International Nomenclature of Cosmetic Ingredients  |
| ISO                 | International Organization for Standardization  |
| IUPAC               | International Union of Pure and Applied Chemistry   |
| LC <sub>50</sub>    | Lethal concentration of a substance in which it can be expected death of 50% of the population    |
| LD <sub>50</sub>    | Lethal dose of a substance in which it can be expected death of 50% of the population             |
| LOAEC               | Lowest observed adverse effect concentration  |
| LOAEL               | Lowest observed adverse effect level  |
| log K <sub>ow</sub> | Octanol-water partition coefficient   |
| MARPOL              | International Convention for the Prevention of Pollution From Ships                               |
| NOAEC               | No observed adverse effect concentration  |
| NOAEL               | No observed adverse effect level  |
| NOEC                | No observed effect concentration  |
| NOEL                | No observed effect level  |
| OEL                 | Occupational Exposure Limits  |
| PBT                 | Persistent, Bioaccumulative and Toxic   |
| PNEC                | Predicted no-effect concentration   |
| ppm                 | Parts per million   |
| REACH               | Registration, Evaluation, Authorisation and Restriction of Chemicals                              |
| RID                 | Agreement on the transport of dangerous goods by rail   |
| UN                  | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB                | Substances of unknown or variable composition, complex reaction products or biological materials  |
| VOC                 | Volatile organic compounds  |
| vPvB                | Very Persistent and very Bioaccumulative  |
| Aquatic Chronic     | Hazardous to the aquatic environment  |
| Eye Dam.            | Serious eye damage  |
| Skin Irrit.         | Skin irritation   |

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.