

**GRAPHITE GREASE 3**

Creation date 14th May 2020  
Revision date Version 1.0

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

- 1.1. Product identifier** GRAPHITE GREASE 3  
Substance / mixture mixture  
Number R 34453
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Mixture's intended use Grease.  
Mixture uses advised against 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 (CRN) 25018205  
VAT Reg No CZ25018205  
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**  
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)  
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

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**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture**  
**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 hazard statements is given in the section 16.
- 2.2. Label elements**
- Supplemental information**  
EUH210 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.

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

**3.2. Mixtures**

**Chemical characterization**

The grease is made of highly refined base oil and > 80% thickening agent - fatty acid calcium soaps. Contains graphite. Used base oils with the following CAS numbers: 64742-52-5 and CAS 64742-54-7. The content of polycyclic aromatic hydrocarbons does not exceed 3%. (DMSO extract according to IP 346). The oil has not been classified as a carcinogenic substance, nor as a substance harmful to human health.

**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
	mineral oil			

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

If the first aid treatment is to be administered, release tight clothing and keep the exposed person warm and at rest. If conscious, place the exposed person to the stabilised position and get prompt medical attention. Cardiac arrest - provide indirect cardiac massage immediately. Provide medical treatment. If unconscious, place in recovery position and get medical attention immediately.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. In the event of issues, find medical advice.

**If on skin**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Do not use solvents. Abrasive. Treat with regenerative cream. Provide medical treatment if skin irritation persists.

**If in eyes**

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. Rinsing should continue at least for 10 minutes. In the event of issues, find medical help.

**If swallowed**

Rinse out the mouth with water and provide 2-5 dL of water. DO NOT INDUCE VOMITING! Do not provide anything by mouth if the person is unconscious or if having cramps.

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

**If inhaled**

Inhalation of high concentrations of heated product may cause respiratory irritation, headache and dizziness, nausea and vomiting.

**If on skin**

Prolonged, frequent, repeated, direct skin contact may cause mild irritation.

**If in eyes**

Possible irritation.

**If swallowed**

Ingestion may cause chemical irritation of the mouth, throat and other areas of the gastrointestinal tract. After absorption, there may be symptoms of food poisoning, abdominal pain, dizziness, nausea and vomiting.

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

In general, it is recommended to seek immediate medical attention in case of ingestion and according to the condition of the affected person.

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

Alcohol-resistant foam, carbon dioxide, powder, water mist. Earth.

**Unsuitable extinguishing media**

Water - full jet.

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

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. Aldehydes.

**5.3. Advice for firefighters**

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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

Prevent any contamination of clothing/footwear with the product; prevent any contact with skin and eyes. Use personal protective equipment for work. Remove contaminated clothes immediately. If possible, larger spills may be covered with foam in order to control the creation of vapours and aerosols. Provide sufficient ventilation. Do not inhale vapours. All persons not taking part in rescue operations must be kept away to a sufficient distance.

**6.2. Environmental precautions**

Avoid release to the environment. Prevent contamination of the soil and entering surface water. Do not allow to enter drains. Inform respective authorities in case of seepage into water course or sewage system.

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

If possible, contain the spillage and pump off or remove the product mechanically or draw it off the water surface. Let absorb any residua or smaller quantities to a suitable sorbent (Vapex, Chezacarb, sand) and place it into labelled containers for further disposal in accordance with the relevant waste disposal legislation.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

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

Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Observe valid legal regulations on safety and health protection. All fire-safety measures must be followed while handling the product. Remove all ignition sources. Keep away from sparks, open flames and other ignition sources.

**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. Do not store together with: Oxidising agent. Do not allow contact with water.

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

Plastic grease for greasing of contact surfaces, sliding mechanisms, running gears and other contact parts who are under extreme load, whether from shocks or pressure. Working temperature -20 °C to +60 °C.

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

The mixture contains substances for which occupational exposure limits are set.

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**8.2. Exposure controls**

Follow the usual measures for health protection at work. 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. Treat with regenerative cream.

**Eye/face protection**

Protective goggles or face shield (based on the nature of the work performed).

**Skin protection**

Hand protection: Protective gloves resistant to the product. Material of gloves: PVC, Nitrile rubber. Neoprene. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear and footwear.

**Respiratory protection**

It is not necessary if the vapour concentration in the air does not exceed the concentration limits. In case of overrun, resp. when creating aerosol use a respirator or half mask with filter type A-P2 or other suitable type against organic gases and vapours of organic substances according to EN 14387.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Avoid release to the environment. 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	black
Odour	specific
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	>300 °C
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	>250 °C
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available
Oxidising properties	data not available

**9.2. Other information**

Density	0.95 g/cm <sup>3</sup> at 20°C
ignition temperature	data not available
Drop point: >77 °C.	

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**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**

May react with strong oxidants.

**10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Protect against direct sunlight.

**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. Aldehydes.

**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.

**Aspiration hazard**

Based on available data the classification criteria are not met.

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

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**Acute toxicity**

Ecotoxicity has not been tested. The product is not classified as harmful to the aquatic environment. However, if used incorrectly or leaked, the grease may be environmentally hazardous.

**12.2. Persistence and degradability**

Limited biodegradability.

**12.3. Bioaccumulative potential**

Not available.

**12.4. Mobility in soil**

Adsorbs strongly to soil.

**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**

This product does not contain substances that deplete the ozone layer. The mixture contains substances that are not readily volatilized. Therefore, releases to the environment are not expected.

**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. If possible, regenerate the product. Suitable method of disposal: incineration in hazardous waste incineration plant. Perfectly cleaned containers can be submitted for recycling.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

07 06 00 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics  
13 08 00 oil wastes not otherwise specified  
15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances \*

**Packaging waste type code**

15 01 10 packaging containing residues of or contaminated by hazardous substances \*  
15 01 02 plastic packaging

(\* ) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

**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

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. 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.

**15.2. Chemical safety assessment**

not available

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

EUH210 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
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

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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

Without classification          Without classification

**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. 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.