

GRAPHITE GREASE 3

Creation date	28th February 2022	Version	2.0
Revision date			

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

- 1.1. Product identifier**
Substance / mixture GRAPHITE GREASE 3
Number R 34453 - 8 kg; R 34455 - 400 g
- 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**
European emergency number: 112

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.

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			

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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 15 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.

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.

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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.

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**

Physical state	liquid
Colour	black
Odour	specific
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	>300 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>200 °C

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Auto-ignition temperature	>250 °C
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0.95 g/cm ³ at 20 °C
Form	paste

9.2. Other information

Evaporation rate	data not available
Drop point: >77 °C.	

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 hazard classes as defined in Regulation (EC) No 1272/2008**

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.

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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.

11.2. Information on other hazards

not available

SECTION 12: Ecological information**12.1. Toxicity****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. Endocrine disrupting properties

not available

12.7. 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**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. 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

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SECTION 14: Transport information

- 14.1. UN number or ID number**
not subject to transport regulations
- 14.2. UN proper shipping name**
not relevant
- 14.3. Transport hazard class(es)**
not relevant
- 14.4. Packing group**
not relevant
- 14.5. Environmental hazards**
not relevant
- 14.6. Special precautions for user**
Reference in the Sections 4 to 8.
- 14.7. Maritime transport in bulk according to IMO instruments**
not relevant

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.
- 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
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
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
log K _{ow}	Octanol-water partition coefficient

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

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MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
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

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.

The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 14 May 2020. Changes were made in sections 2, 13, 15 and 16.

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.