SAFETY DATA SHEET

According to the European Regulation (EC) No. 1907/2006, Commission Regulation (EC) No. 830/2015

Product name: **MOGUL K 3**
Date of issue: 22. 10. 2010
Revision date: 31. 8. 2018 (Version 2.0)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

MOGUL K 3

Chemical name:
Mixtures

Registration No.:
None

Index No.:
None

1.2 Relevant identified uses of the substance or mixture and uses advised against

Designated uses: Plastic lubricant
Uses of the mixture not recommended: The product may not be used in any way other than those specified in sections 1 and 7.

1.3 Details of the supplier of the safety data sheet

Name: PARAMO, a.s.
Place of business: Přerovská 560, 530 06 Pardubice, Czech Republic
Phone: +420 466 810 111
Fax: +420 466 335 019
E-mail: paramo@paramo.cz
Website: www.paramo.cz
Person(s) responsible for this Safety Data Sheet: Ms. Marie Doleželová, marie.dolezelova@paramo.cz

1.4 Emergency telephone number

Control Room of PARAMO, a. s.: +420 466 303 175
Toxicological Information Centre at Na Bojišti 1, 128 08 Prague 2, phone (Czech Republic only) (24 hours, 7 days a week): +420 224 919 293, 224 915 402, 224 914 575
Transport Information & Accident System (**TRINS**), phone: +420 476 709 826

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008 (CLP) the product is not classified as hazardous.

2.2 Label elements

Pictogram: None

Warning description: None

Dangerous substances: None

Standard phrases of hazard: None

Safe handling instructions: None

Other requirements:
Safety data sheet available on request.

2.3 Other hazards

The product is not persistent, bioaccumulative and toxic chemical substance or very persistent and very bioaccumulative chemical substance according to the criteria set out in Annex XIII to the EC (PBT, vPvB).
It is not expected any health hazard by normal use. Long-term and repeated skin contact may cause irritation.
Flammable material. The risk of combustion arises when heated above flash point.
The product is not expected to cause long-term adverse effects in the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

It is not a substance.

3.2 Mixtures

Chemical characteristics

The mixture of the following substances and admixtures:
The mixture contains these hazardous substances and substances with the highest admissible concentrations in the working atmosphere.

Identification numbers	Substance name	Content in % weigh	Classification according to (ES) č. 1272/2008	Note.
EC: unspecified CAS: 64742-54-7 Registration number: unspecified	Base oil - unspecified			L

Note. L: The mineral oil DMSO value <3% - it is not classified as carcinogenic.

Full texts of H-phrases are quoted in 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. In case of cardiac arrest, apply cardiac massage and call medical assistance immediately. If unconscious but breathing, place the exposed person to the stabilised position and call medical assistance immediately.

The first aid instructions are structured according to separate exposure ways:
Inhalation: In case of inhalation of the aerosol, dispose of the affected person to fresh air.
Skin contact: In case of contact with the skin, wash the affected area thoroughly with water and soap and treat with a suitable cream.

Contact with eyes: Check for contact lenses and remove them, if present. Rinse the eyes thoroughly with ample quantity of clean (lukewarm, if possible) water for at least 15 minutes. If eye irritation persists, seek medical assistance.

Ingestion: Rinse mouth with water, never induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

Inhalation: Check for breathing and pulse rate of the affected person. Do not induce vomitting.

Ingestion and inhalation: Contraindications: induced vomiting and gastric irrigation. Administration of medicinal charcoal has no effect. The affected person must be monitored at least for the period of 48 to 72 hours. Monitoring for pulmonary oedema symptoms starts six hours after the ingestion/inhalation and it continues at least for the period of 48 to 72 hours.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing means: Heavy, medium and light air-mechanical foam, type B or C fire-extinguishing powders.

Unsuitable extinguishing means: Water jet (for cooling only).

5.2 Special hazards arising from the substance or mixture

Combustion products and hazardous gases: smoke, carbon monoxide, carbon dioxide.

5.3 Advice for firefighters

Fire-fighting teams exposed to smoke or vapours must wear respiratory and eye protection. In confined spaces, the teams must use a self-contained breathing apparatus.

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 suitable protective clothing; if contaminated, change the clothing immediately. Remove any potential source of ignition. Provide for good ventilation of the affected areas. All persons not taking part in rescue operations must be kept away to a sufficient distance.

6.2 Environmental precautions

Act as quick as possible, do not allow to enter drains, underground water or watercourses and soil by enclosing the affected area (damming, closing of gulleys). Notify the relevant authorities.

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, saw dust, sand) and place it into labelled containers for further disposal in accordance with the relevant waste disposal legislation.

6.4 Reference to other sections

Apart from the instruction set out in this Section, other important information is shown in section 8 - EXPOSURE CONTROLS AND SECTION 13 – DISPOSAL CONSIDERATIONS.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

The premises must be equipped according to the requirements of ČSN 75 3415 (Czech Standard). All fire-safety measures must be followed while handling the product. If handling of heavy containers is necessary, use suitable handling equipment and avoid of any possibility of slipping. Do not eat, drink and smoke at work

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed containers or packing in places protected from rain, dust, heat and other weather. Protect against the ingress of water and mechanical impurities. Recommended storage temperature is 25 °C.

7.3 Specific end use(s)

Lubricant for lubrication of plain bearings.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The mixture contains substances for which exposure limits are set for the working environment.

PEL (Czech Rep., Government Regulation No. 361/2007 Coll.)	mineral oil (aerosols): 5 mg/m^3
NPK-P (Czech Rep., Government Regulation No. 361/2007 Coll.)	mineral oil (aerosols): 10 mg/m^3
AGW (Germany, TRGS 900)	mineral oil (aerosols): 5 mg/m^3
NDS (Republic of Poland , Dz.U. 2014 poz. 817)	mineral oil (aerosols): 5 mg/m^3
NPEL - average (Slovakia, Government Regulation No. 355/2006 Coll.)	mineral oil (aerosols): 1 mg/m^3
NPEL - short-time (Slovakia, Government Regulation No. 355/2006 Coll.)	mineral oil (aerosols): 3 mg/m^3

Base oil - unspecified

DNEL inhalation/workers/long-term local influence:	(aerosol) 5.4 mg/m^3
DNEL inhalation/public/long-term local influence:	(aerosol) 1.2 mg/m^3
PNEC (oral predators):	9.33 mg/kg food

8.2 Exposure controls

Observe general safety and hygienic measures; do not eat, drink and smoke at work. After washing the skin with warm water and soap, treat it preventively with a regeneration cream.

Eye/face protection: Use protective goggles or safety eyewear (face shield).

Skin protection: Use protective gloves resistant against oil products and tested according to EN 374; best of all made of nitrile or neoprene rubber.

Respiratory protection: Not necessary, if the vapour concentration in air is less than the concentration limits. If the opposite is the case or aerosols are created, use emergency escape mask with A, AX (brown) filters or any other mask types suitable of protecting against organic gases and vapours.

Thermal hazard: None

Environmental exposure controls: It is necessary to prevent leakage into the environment by all available means.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	
State:	semi-soft at 20 °C
Colour:	green to brown
Odour:	typical
Odour threshold value:	not determined
pH:	no determination necessary
Pour point:	> 95 °C
Initial boiling point and boiling range:	not determined
Flash point OK:	> 275 °C
Vaporisation rate:	not determined
Flammability:	IV. Class
Upper/lower explosion or flammability limits:	not determined
Vapour pressure:	< 10 Pa at 20 °C
Vapour density:	not determined
Relative density:	868 kg/m^3 at 15 °C
Solubility:	insoluble in water
Separation factor:	n-octanol/water: not determined
Self-ignition temperature:	> 345 °C
Decomposition temperature:	not determined
Viscosity:	not determined
Explosive properties:	not explosive
Oxidation properties:	not oxidising

9.2 Other information

Combustion point:	> 300 °C

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No reactivity danger exists.

10.2 Chemical stability: Stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions are possible.

10.4 Conditions to avoid: Presence of ignition sources and contact with a naked flame.

10.5 Incompatible materials: Strong oxidisers.

10.6 Hazardous decomposition products: Under normal conditions: none; if burning under deficiency of air, carbon monoxide may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Base oil - unspecified

Acute toxicity: oral toxicity (rat) LD_{50} > 5 000 mg/kg (OECD 401)

dermal toxicity (rabbit) LD_{50} > 2 000 mg/kg (OECD 402)

inhalation toxicity (rabbit) LC_{50} > 5 000 mg/m^3 (OECD 403)

Chronic toxicity: chronic inhalation toxicity NOAEL > 220 mg/m^3 (OECD 412)

Skin corrosion/irritation: OECD 404 test results proved no the skin irritation.

Serious eye damage/irritation: OECD 405 test results proved no eye irritation.

Respiratory or skin sensitization: the respiratory organ sensitisation data are missing, but no such sensitisation is expected. As regards the sensitisation by skin contact, OECD 406 tests were made and no sensitisation proved.

Germ cell mutagenicity: PAU < 3 % (IP 346)

Carcinogenicity: It is not carcinogenic for dermal or inhalation exposure.

Reproduction toxicity: The substance is not toxic for reproduction

STOT – single exposure: not determined

STOT – repeated exposure: not determined

Aspiration hazards: May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

Based on acute toxicity of invertebrates and algae, the product None classified as toxic to the environment.

12.1 Toxicity

Base oil - unspecified

Acute toxicity for aquatic environment: fish - LL_{50} (96 hrs) > 100 mg/l, NOEL ≥ 100 mg/l (OECD 203)

algae EL_{50} (72 hrs) ≥ 100 mg/l (OECD 201)

invertebrates EL_{50} (48 hrs) >10 000 mg/l, NOEL ≥ 1000 mg/l (OECD 202)

Chronic toxicity for aquatic environment: invertebrates NOELR (21 days) 10 mg/l, fish NOEL (21 days) 10 mg/l

Toxicity for soil microorganisms and for soil macroorganisms: none

12.2 Persistence and degradability: Not expected - the substance is not soluble in water.

12.3 Bioaccumulative potential: Not expected

12.4 Mobility in soil: Not expected

12.5 Results of PBT and vPvB assessment: The product does not contain substances meeting the criteria for PBT or vPvB in accordance with Annex XIII, Regulation (EC) No 1907/2006 (REACH), as amended.

12.6 Other adverse effects: Not expected

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Substance disposal procedures: Do not dispose of together with municipal waste. Do not dispose of waste through sewers. Waste, impaired product or unused/surplus product must be handed over to the person authorised for waste disposal according to the local law.

Waste Code: N 13 08 99 , in sorbent: N 15 02 02

Contaminated packaging disposal procedures: The containers with product residua must be placed on the place specified by the municipal authorities or handed over to the person authorised for waste disposal.

Waste legislation: Directive 2008/98/EC

SECTION 14: TRANSPORT INFORMATION

Nomenclature and labelling according to the European Agreement concerning the International Carriage of Dangerous Goods, Road (ADR)/Rail (RID)

ADR: Not regulated as a dangerous good
RID: Not regulated as a dangerous good
ADN: Not regulated as a dangerous good
IATA-DGR: Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

14.1 UN Number: none, not regulated as a dangerous good

14.2 UN proper shipping name: none, not regulated as a dangerous good

14.3 Transport hazard class(es): none, not regulated as a dangerous good

14.4 Packing group: none, not regulated as a dangerous good

14.5 Environmental hazard: none

14.6 Special precautions for user:

Petroleum liquids under the Act on the waters, as amended, considered dangerous because of the requirements of the quality of surface and groundwater when transporting large volumes necessary to follow the advice of Standard 75 3418.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- ✓ Act on Clean Air Protection, as amended later, *incl. connected regulations and rules.*
  The product does not represent a volatile organic substance pursuant to Act on Clean Air Protection, as amended and relevant regulations of the Ministry of Environment.
- ✓ ČSN 65 0201 Flammable Liquids – manufacturing, storage and handling premises
  According to ČSN 65 0201, the product is classified in the IV Flammability Class.
- ✓ ČSN 33 0371 In explosive electrical installation – Explosive mixtures – Classification and methods of testing
  According to ČSN 33 077, the product is classified in the T3 Thermal Class and IIA Explosive Class.
- ✓ Government Regulation No. 361/2007 Coll., by which the conditions of occupational health and safety are stipulated, as amended later.
- ✓ ČSN 75 3415 Protection of water against oil products. Premises for oil product handling and storage.
- ✓ Act No. 350/2011 Coll., on chemical substances and chemical preparations, and on amendments of some acts.
- ✓ Regulation (EU) No. 830/2015 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 on classification, labelling and packaging of substances and mixtures

15.2 Chemical safety assessment

The chemical safety assessment has been made for mineral oil.

SECTION 16: OTHER INFORMATION

Standard safety phrases (H-phrases) used in the safety data sheet: None

Safe handling instructions (P-phrases) used in the safety data sheet: None

Additional information on the label:
EUH210 Safety data sheet available on request.

Abbreviations used in the safety data sheet

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Haz./Tox.	Aspiration hazard / toxicity
Carc.	Carcinogenicity
CAS	Chemical Abstract Service
CLP	Regulation of Classification, Labelling and Packaging
DNEL	Derived no-effect level
EC_{50}	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
EC	European Community number

Eye Dam./Irrit.	Eye Damage / Irritation
Flam. Liquid	Flammable Liquid
IATA	International Air Transport Association
IBC	International regulation for Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC_{50}	half maximal inhibitory concentration
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
ISO	International Organization for Standardization
LC_{50} / LD_{50}	Median lethal dose
LOAEC	Measures of pollutant concentration
LOAEL	Lowest-observed-adverse-effect level
Log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
Mutag.	Mutagenicity
NOAEC	Measures of pollutant concentration
NOAEL	No-observed-adverse-effect level
NOEC	No Observed Effect Concentration
NPK	Highest admissible concentration
OECD TG	OECD Guidelines for the Testing of Chemicals
PBT	Persistent, bioaccumulative and toxic
PEL	Acceptable Exposure Limit
PNEC	Predicted no-effect concentration
ppm	parts per million
REACH	Europion Union Regulation for Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	European treaty on the international transport of hazardous substances by rail
Skin Corr./Irrit./Sens.	Skin Corrosion/ Irritation/ Sensitisation
STOT SE	Specific target organ toxicity – single exposure
STOT RE	Specific target organ toxicity – repeated exposure
UN	The four-digit identification number of the substance or object taken from the UN Model Regulations
UVCB	Compounds of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Highly persistent and highly bioaccumulative

Other information important for the safety and health of humans

The product must not be used for any purpose other than those specified in sections 1 and 7 without the manufacturer's / importer's specific consent. The user is responsible for compliance with all relevant health protection regulations.

Training

The user is obliged to get acquainted with the safety precautions relating to the product handling / treatment and complete applicable trainings at the workplace before he/she starts to work with the product.

Information on changes

✓ Version 2.0 – overall change according to European Regulation (EC) No. 1907/2006, Commission Regulation (EC) No. 830/2015

***Statement**: The Safety Data Sheet has been prepared in accordance with REACH Regulation (EC) No 1907/2006. It contains the data that are needed to ensure safety and health at work and environmental protection. These data do not replace the quality specification and cannot be considered as a guarantee of the suitability and usability of this product for a specific application. These data correspond to the current state of knowledge and experience and are in accordance with our valid legal regulations. The customer is responsible for compliance with the applicable regional legislation*