

Product name: MOGUL LV 2-M
Date of issue: 25. 11. 2008
Revision date: 15. 6. 2018 (3.0)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**1.1 Product Identifier****MOGUL LV 2-M****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.czWebsite: www.paramo.czPerson(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).

Flammable liquid: threat of combustion in case of heating above flash point temperature. In normal use it does not pose any health hazards. Long-term and repeated skin contact may cause irritation. It is not expected to cause long-term adverse effects in the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

The product is not the substances

Product name: MOGUL LV 2-M
Date of issue: 25. 11. 2008
Revision date: 15. 6. 2018 (3.0)

3.2 Mixtures

Chemical characteristics

A mixture of the following substances and admixtures

Identification No.	Substance name	Subst. content in the product (%)	Classification according to 1272/2008 (CLP)	Note
EC: 265-077-7 CAS: 64741-76-0 Registration No: 01-2119486951-26	Distillates (petroleum), hydrocracked heavy.			

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 vomiting.

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, CO₂.

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. Explosive mixtures with air are formed.

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.

Product name: MOGUL LV 2-M
Date of issue: 25. 11. 2008
Revision date: 15. 6. 2018 (3.0)

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. Strictly no smoking or naked flames. If possible, larger spills may be covered with foam in order to control the creation of vapours and aerosols. 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 in areas protected from rain, dust, heat and other weather conditions. Prevent from the penetration of water and mechanical impurities. The recommended storage temperature is 25 °C.

7.3 Specific end use(s)

Plastic lubricant designed for lubrication of highly loaded rolling bearings, for lubrication of bolts and suspension pins for electric locomotives.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

The mixture contains substances for which exposure limits are set for the working environment (according to Government Regulation 361/2007).

Mineral (base) oil:

PEL mineral oil: 5 mg/m³

NPK-P mineral oil: 10 mg/m³

Inhalation: long-term exposure: occupational DNEL (inhalation) intermittent = 5.4 mg/m³/8 h
general population DNEL (inhalation) intermittent = 1.2 mg/m³/24 h

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. This information extends the facts already shown above in Section 7.

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. Leather or thick textile materials are not suitable.

Product name: MOGUL LV 2-M

Date of issue: 25. 11. 2008

Revision date: 15. 6. 2018 (3.0)

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: semi-soft at 20 °C
Colour: black
Odour: typical
Odour threshold value: not determined
pH: no determination necessary
Drop point: above 180 °C
Initial boiling point and boiling range: not determined
Flash point OK: above 295 °C
Vaporisation rate: not determined
Flammability (solids, gases): IV. Class
Upper/lower explosion or flammability limits: not determined
Vapour pressure: < 10 Pa at 20 °C
Vapour density: not determined
Relative density: 905 kg/m³ at 15 °C
Solubility: insoluble in water
Separation factor: n-octanol/water: not determined
Self-ignition temperature: above 355 °C
Decomposition temperature: not determined
Viscosity: not determined
Explosive properties: not explosive
Oxidation properties: not oxidising

9.2 Other information

Combustion point: above 320 °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

Mineral (base) oil:

Acute toxicity: oral toxicity (rat) LD₅₀ > 5 000 mg/kg (OECD TG 401)

Product name: MOGUL LV 2-M
Date of issue: 25. 11. 2008
Revision date: 15. 6. 2018 (3.0)

dermal toxicity (rabbit) LD₅₀ > 2 000 mg/kg (OECD TG 402)
 Inhalation toxicity (rat) LC50 > 5 000 mg/m³ (OECD TG 403)

Chronic toxicity: chronic inhalation toxicity NOAEL > 220 mg/m³ (OECD TG 412)

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

Serious eye damage/irritation: OECD TG 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 TG 406 tests were made and no sensitisation proved.

Germ cell mutagenicity: Genetic toxicity tests in vitro or in vivo have not demonstrated germ cell mutagenicity.

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: None

SECTION 12: ECOLOGICAL INFORMATION

Based on acute toxicity of invertebrates and algae, the product is not classified as toxic to the environment.

12.1 Toxicity

Mineral (base) oil:

Acute toxicity for aquatic environment: fish - LL₅₀ (96 hrs) > 100 mg/l, NOEL ≥ 100 mg/l (OECD TG 203)

algae EL₅₀ (72 hrs) ≥ 100 mg/l (OECD TG 201)

invertebrates EL₅₀ (48 hrs) >10 000 mg/l, NOEL ≥ 1000 mg/l (OECD

TG 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: Not tested

12.2 Persistence and degradability: not readily biodegradable.

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: Waste, impaired product or unused/surplus product must be handed over to the person authorised for waste disposal according to the provisions of Act No. 185/2001 Coll., on Waste, as amended later, for the purposes of further use or disposal (according to the manufacturer's recommendations).

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

Contaminated packaging disposal procedures: Base oil is supplied in rail tanks and tank trucks. If re-pumped into drums, these must be handed over – properly emptied – to the collection yard for hazardous waste. 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: Act No. 185/2001 Coll., on Waste, as amended later and connected implementation rules and regulations.

The information important for safety of persons in the waste management system extends the information set out in section 8.

Product name: MOGUL LV 2-M

Date of issue: 25. 11. 2008

Revision date: 15. 6. 2018 (3.0)

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 No. 201/2012 Coll., on Clean Air Protection, as amended later, *incl. connected regulations and rules. The product does not represent a volatile organic substance pursuant to Act N. 201/2012 Coll., 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 Inexplosive electrical installation – Explosive mixtures – Classification and methods of testing
According to ČSN 33 077, the product is classified in the T3 Thermal 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 mixtures, 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

Product name: MOGUL LV 2-M

Date of issue: 25. 11. 2008

Revision date: 15. 6. 2018 (3.0)

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	European 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

- ✓ The change was made on the basis of Commission Regulation (EU) No 453/2010.
- ✓ The change (version 3.0) – total revision of SDS.

Product name: MOGUL LV 2-M

Date of issue: 25. 11. 2008

Revision date: 15. 6. 2018 (3.0)

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*