

**SAFETY DATA SHEET**

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

**Product name:** MOGUL LV 2-EP  
**Date of issue:** 25. 11. 2008  
**Revision date:** 1. 12. 2017 (Version 3.1)

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY****1.1 Product Identifier****MOGUL LV 2-EP****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](mailto:paramo@paramo.cz)Website: [www.paramo.cz](http://www.paramo.cz)Person(s) responsible for this Safety Data Sheet: Ms. Marie Doleželová, [marie.dolezelova@paramo.cz](mailto: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 &amp; 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: Prolonged or frequently repeated exposure to this product may cause eye and skin irritation. The inhalation of oil mist may irritate the breathing passages. This product is not assumed to have long-term adverse ecological effects.

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

The product is not the substances

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## 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: 288-917-4 CAS: 85940-28-9 Registration No: 01-2119521201-61	Dithiophosphoric acid, mixed O, O bis (2-ethylhexyl and isobutyl and isopropyl) esters, zinc salts	2.0	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 2, H411	
EC: 265-077-7 CAS: 64741-76-0 Registration No: 01-2119486951-26	Distillates (petroleum), heavy hydrocracked			

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.

**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.

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**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. Strictly no smoking or naked flames. In addition, it is necessary to avoid any inhalation of vapours or aerosol, contamination of skin and/or eyes. 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. Store the product away from foodstuffs, drinks and fodder.

**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. The recommended storage temperature is 25 °C.

**7.3 Specific end use(s)**

Lubrication of antifriction and sliding 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 (according to Government Regulation 361/2007).

PEL mineral oil: 5 mg/m<sup>3</sup>

NPK-P mineral oil: 10 mg/m<sup>3</sup>

Inhalation: long-term exposure: occupational DNEL (inhalation) intermittent = 5.4 mg/m<sup>3</sup>/8 h  
general population DNEL (inhalation) intermittent = 1.2 mg/m<sup>3</sup>/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.

**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

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**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: yellow - brown  
Odour: typical  
Odour threshold value: not determined  
pH: no determination necessary  
Drop point: over 185 °C  
Initial boiling point and boiling range: not determined  
Flash point OK: above 295 °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: 905 kg/m<sup>3</sup> 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:** Creation of concentrations within the explosion limits, 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) LD<sub>50</sub> > 5 000 mg/kg (OECD TG 401)  
dermal toxicity (rabbit) LD<sub>50</sub> > 2 000 mg/kg (OECD TG 402)  
Inhalation toxicity (rat) LC50 > 5 000 mg/m<sup>3</sup> (OECD TG 403)  
**Chronic toxicity:** chronic inhalation toxicity NOAEL > 220 mg/m<sup>3</sup> (OECD TG 412)

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**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:** PAU < 3 % (IP 346)

**Carcinogenicity:** PAU < 3 % (IP 346). 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 - LL<sub>50</sub> (96 hrs) > 100 mg/l, NOEL ≥ 100 mg/l (OECD TG 203)

algae EL<sub>50</sub> (72 hrs) ≥ 100 mg/l (OECD TG 201)

invertebrates EL<sub>50</sub> (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: none

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

**12.3 Bioaccumulative potential:** Not expected – the substance is biodegradable.

**12.4 Mobility in soil:** Not expected – the substance is biodegradable.

**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:** 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.

**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

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- 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 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**

H315 Causes skin irritation  
H319 Causes serious eye irritation  
H411 Toxic to aquatic life with long lasting effects  
EUH210 Safety data sheet available on request.

**Safe handling instructions: P-phrase**

None

**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) – Classification CLP
- ✓ The change (version 3.1) – art. 1.2, 1.3, 2.2, 3.2, 4, 8.1, 9.1, 11, 12, 14, 15.1, 16.

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**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*