

**SAFETY DATA SHEET**

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

**Product name:** MOGUL HM 68 S  
**Date of issue:** 27. 05. 2008  
**Revision date:** 13. 11. 2017 (Version 2.1)

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY****1.1 Product Identifier****MOGUL HM 68 S****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: Hydraulic oil

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 classified as hazardous.**

Harmful for the aquatic life: Aquatic Chronic 3, H412

**2.2 Label elements****Pictogram:** None**Warning description:** None**Dangerous substances:** None**Standard phrases of hazard:**

H412 Harmful to aquatic life with long lasting effects

**Safe handling instructions**

P273 Avoid release to the environment

P501 Dispose of contents/container according to local regulations

**Other requirements**

None

**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.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

The product is not the substances

### 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: 204-884-0 CAS: 128-39-2 Registration No: 01-2119490822-33	2,6-di-tert-butylphenol	0.25	Skin Irrit. 2, H315 Aquatic Acute 1, H400; M=1 Aquatic Chronic 1, H410; M=1	
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. If the exposed person is unconscious and not breathing, provide for free respiratory passages and artificial respiration. 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:** Move the exposed person to fresh air or to a well-ventilated place, keep the exposed person warm and at rest, do not leave the person unattended. Get prompt medical assistance.

**Skin contact:** Remove the contaminated clothes and footwear immediately. Keep washing the affected body parts with soap and warm water and treat them with a suitable cream. If any irritation, swelling or reddening occurs, get prompt medical assistance. Wash the contaminated clothes before re-use. Footwear and other leather clothing parts must be replaced with new.

**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:** Remove any artificial denture, if present. Rinse the mouth with water, but never induce vomiting - vomit should not get into the lungs. Get prompt medical attention. If nevertheless spontaneous vomiting occurs, place the exposed person to the stabilised position with his/her legs slightly elevated. Seek immediate medical assistance.

### 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:** The product has negative effects on the central nervous system. At higher concentrations, the product vapours have narcotic effects that may cause convulsions or even death. Check for breathing and pulse rate of the affected person.

**Ingestion and inhalation:** If swallowed or inhaled, the product may cause serious damage of lungs. Do not induce vomiting. 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.

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**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 stream.

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

Products of combustion and hazardous gases: smoke, carbon monoxide, carbon dioxide, nitrogen oxide, sulphur oxide and phosphorus oxide.

**5.3 Advice for firefighters**

Intervention units exposed to smoke or gases must be equipped with protective means to protect the respiratory system and eyes. It is necessary to use an insulating respirator in case of intervention in closed rooms.

**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 building must be equipped in accordance with the respective ČSN 75 3415 standard. When handling heavy packaging, use appropriate handling means and exclude the possibility of slipping.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in properly sealed packaging in a place protected from rain, dust, heat and other weather conditions. The maximum storage temperature is 40 °C. Protect against water and mechanical impurities. Protect from light.

**7.3 Specific end use(s)**

For systems operating at low temperatures (winter or year-round operation)

**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 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

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**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: liquid

Colour: yellow

Odour: without odor

Odour threshold value: not determined

pH: no determination necessary

Pour point: -27 °C

Initial boiling point and boiling range: not determined

Flash point OK: > 190 °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: 870 kg/m<sup>3</sup> at 15 °C

Solubility: insoluble in water

Separation factor: n-octanol/water: not determined

Self-ignition temperature: 340 °C

Decomposition temperature: not determined

Viscosity/40 °C: 61.2 – 74.8 mm<sup>2</sup>/s

Explosive properties: not explosive

Oxidation properties: not oxidising

**9.2 Other information**

Combustion point: 220 °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.

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**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**

**Acute toxicity:** oral toxicity (rat) LD<sub>50</sub> > 5 000 mg/kg (OECD 401)

dermal toxicity (rabbit) LD<sub>50</sub> > 2 000 mg/kg (OECD 402)

inhalation toxicity (rabbit) LC<sub>50</sub> > 5 000 mg/m<sup>3</sup> (OECD 403)

**Chronic toxicity:** chronic inhalation toxicity NOAEC > 220 mg/m<sup>3</sup> (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 content is < 3 % (IP 346). Tests of genetic toxicity in vitro and in vivo showed mutagenicity in germ cells

**Carcinogenicity:** PAU content is < 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 classified as toxic to the environment, H412.

**12.1 Toxicity**

Acute toxicity for aquatic environment: fish - LL<sub>50</sub> (96 hrs) > 100 mg/l, NOEL ≥ 100 mg/l (OECD 203)

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

invertebrates EL<sub>50</sub> (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 Bio accumulative 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 01 10, 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.

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**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 Inexplosive 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.

**SECTION 16: OTHER INFORMATION****Standard safety phrases: H-phrases**

H315 Causes skin irritation  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects  
H412 Harmful to aquatic life with long lasting effects

**Safe handling instructions: P-phrase**

P273 Avoid release to the environment  
P501 Dispose of contents/container according to local regulations

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### **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 2.0) – Classification CLP.
- ✓ The change (version 2.1) – art 1.2, 1.3, 2.1, 2.2, 3.2, 7.2, 9.1, 11, 12, 14, 15.1, 16.

The data contained in this safety data sheet are based on our current knowledge and experience and they are related to the specified product only. The user is responsible for the product correct handling under the current legislation.