

SAFETY DATA SHEET

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

Product name: PARAMO PP 44
Date of issue: 24. 05. 2012
Revision date: 15. 11. 2017 (Version 2.1)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**1.1 Product Identifier****PARAMO PP 44****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: Industrial gear 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

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: Contain Polysulfids, di-terc. butyl and reaction products of bis (4-methylpentane-2-yl) dithiophosphor acid with phosphorus oxide, propylene oxide and C12-14 branched alkylamines – can cause an allergic reaction

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. Swallowing and subsequent vomiting may make the liquid reach and seriously damage the lungs.

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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: 273-103-3 CAS: - Registration No: 01-2119540512-43	Polysulfid, di-terc. butyl	0.80	Skin Sens. 1, H317 Aquatic Chronic 3, H412	
EC: 931-384-6 CAS: - Registration No: 01-2119493620-38	The reaction products of bis (4-methyl pentane-2-yl) dithiophosphor acid with phosphorus oxide, propylene oxide and C12-14 branched alkylamines	0.20	Acute Tox. 4, H302 Aquatic Chronic 2, H411 Eye Dam. 1, H318 Skin Sens. 1, H317	
EC: 278-012-2 CAS: 74869-22-0 Registration No: 01-2119495601-36	Lubricating oils			

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: 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.

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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.

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 places protected from rain, dust, heat and other weather. The maximum storage temperature is 40 ° C.

7.3 Specific end use(s)

For heavy-duty gearboxes of all types operating at a wide range of speed; for lubrication of bearings and other machinery parts with high demands on anti-abrasion oil performance.

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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/m³NPK-P mineral oil: 10 mg/m³Inhalation: 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.

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: brown

Odour: typical

Odour threshold value: not determined

pH: no determination necessary

Pour point: below +3 °C

Initial boiling point and boiling range: not determined

Flash point OK: above 210 °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: 980 kg/m³ at 15 °C

Solubility: insoluble in water

Separation factor: n-octanol/water: not determined

Self-ignition temperature: above 360 °C

Decomposition temperature: not determined

Viscosity: 24 – 41 mm²/s/100 °C

Explosive properties: not explosive

Oxidation properties: not oxidising

9.2 Other information

Combustion point: above 240 °C

SECTION 10: STABILITY AND REACTIVITY

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- 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**

- Acute toxicity:** oral toxicity (rat) LD₅₀ > 5 000 mg/kg (OECD 401)
dermal toxicity (rabbit) LD₅₀ > 2 000 mg/kg (OECD 402)
inhalation toxicity (rabbit) LC₅₀ > 5 000 mg/m³ (OECD 403)
- Chronic toxicity:** chronic inhalation toxicity NOAEL > 220 mg/m³ (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:** 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

- Acute toxicity for aquatic environment: fish - LL₅₀ (96 hrs) > 100 mg/l, NOEL ≥ 100 mg/l (OECD 203)
algae EL₅₀ (72 hrs) ≥ 100 mg/l (OECD 201)
invertebrates EL₅₀ (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 – 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

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Waste, as amended later, for the purposes of further use or disposal (according to the manufacturer's recommendations).

Waste Code: N 13 02 05, in sorbent: N 15 02 02

Contaminated packaging disposal procedures: The containers with product residues 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

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 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.

SECTION 16: OTHER INFORMATION

Standard safety phrases: H-phrases

H302 Harmful if swallowed

H317 May cause an allergic skin reaction

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H318 Causes serious eye damage

H411 Toxic to aquatic life with long lasting effects

H412 Harmful to aquatic life with long lasting effects

EUH208 Contain Polysulfids, di-terc. butyl and The reaction products of bis (4-methylpentane-2-yl) dithio-phosphor acid with phosphorus oxide, propylene oxide and C12-14 branched alkylamines – can cause an allergic reaction

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 has been made on the basis of the Commission Regulation (EU) No. 453/2010 coming into effect.
- ✓ Change – art. 2.2, 3.2.
- ✓ Version 1.2 – change art. 3.2, 14.6, 15.1, 16.1, 16.2.
- ✓ The change (version 2.0) – Classification CLP
- ✓ The change (version 2.1) – art. 1.2, 1.3, 2.2, 3.2, 4.1, 7.2, 9.1, 12, 14, 15.1, 16

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*