SAFETY DATA SHEET

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

Product name: **PARAMO K 12**
Date of issue: 22. 05. 2008
Revision date: 28. 11. 2017 (Version 3.1)

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

1.1 Product Identifier

PARAMO K 12

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: Compressor 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: 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

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), 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 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. 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 building must be equipped in accordance with the respective ČSN 75 3415 standard. When handling heavy packaging, use appropriate handling means. Prevent the spill of the product – risk 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.

7.3 Specific end use(s)

The oil can be also used for industrial gear boxes operating under moderately severe conditions.

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^3		
NPK-P	mineral oil: 10 mg/m^3		
Inhalation: long-term exposure:	occupational	DNEL (inhalation) intermittent = 5.4 mg/m^3/8 h	
	general population	DNEL (inhalation) intermittent = 1.2 mg/m^3/24 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 -6 °C
Initial boiling point and boiling range:	not determined
Flash point OK:	above 250 °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:	900 kg/m^3 at 15 °C
Solubility:	insoluble in water
Separation factor:	n-octanol/water: not determined
Self-ignition temperature:	above 370 °C
Decomposition temperature:	not determined
Viscosity:	135 - 195 mm^2/s/40 °C
Explosive properties:	not explosive
Oxidation properties:	not oxidising

9.2 Other information

Combustion point: above 265 °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

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 (rat) 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: 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 - 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 – 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 02 05, 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

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
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.
- ✓ 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.

***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*