

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

**Product name:** PARAMO CLP 320  
**Date of issue:** 30. 5.2008  
**Revision date:** 31. 1. 2019 (Version 2.2)

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product Identifier****PARAMO CLP 320****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](mailto:paramo@paramo.cz)  
**Website:** [www.paramo.cz](http://www.paramo.cz)  
**Person(s) responsible for this Safety Data Sheet:** [bl@paramo.cz](mailto:bl@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 classified as hazardous.**

Skin sensitisation: Skin Sens. 1, H317

**2.2 Label elements****Pictogram:**

**Warning description:** Warning

**Dangerous substances:** Contains: Polysulfide, di-terc. Butyl; The reaction products of bis (4-methylpentane-2-yl) dithiophosphor acid with phosphorus oxide, propylene oxide and C12-14 branched alkylamines

**Standard phrases of hazard:**

H317 May cause an allergic skin reaction

**Safe handling instructions**

P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective clothing  
P302+P352 IF ON SKIN: Wash with plenty of soap and water  
P333+P313 If skin irritation or rash occurs: Get medical advice  
P362 Take off contaminated clothing and wash before reuse  
P501 Dispose of contents/container according to local regulations

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## 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.

## 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: not available Registration No: 01-2119540512-43	Polysulfide, di-terc. butyl	1.20	Skin Sens. 1, H317 Aquatic Chronic 3, H412	
EC: 931-384-6 CAS: not available Registration No: 01-2119493620-38	The reaction products of bis (4-methylpentane-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and C12-14 branched alkylamines	0.30	Acute Tox. 4, H302 Aquatic Chronic 2, H411 Eye Dam. 1, H318 Skin Sens. 1, H317	
EC: 204-015-5 CAS: 112-90-3 Registration No: not available	Cis-oktadec-9-enylamin	0.014	Acute Tox. 4, H302 Asp. Tox. 1, H304 Eye Dam. 1, H318 Skin Corr. 1B, H314 STOT RE 2, H373 STOT SE 3, H335 Aquatic Acute 1, H400, M=10 Aquatic Chronic 1, H410, M=10	
EC: 265-077-7 CAS: 64741-76-0 Registration No: 01-2119486951-26	Base oil, unspecified			L
EC: 278-012-2 CAS: 74869-22-0 Registration No: 01-2119495601-36	Lubricating oils			L

Note. L: The mineral oil DMSO value <3% - it is not classified as carcinogenic.

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.

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**Skin contact:** When skin contact with the product is promptly washed with water and soap, treat it 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

Dermal allergic reaction.

#### 4.3 Indication of any immediate medical attention and special treatment needed

**Inhalation:** Check breathing and pulse rate of the victim. 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 firefighting

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.

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## 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in areas protected from rain, dust, heat and other weather-Weather proofing. Maximum storage temperature is 40 ° C. Protect against water.

## 7.3 Specific end use(s)

Fill for circulation lubricating system; heavy-load industrial gearboxes

## 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 (Czech Rep., Government Regulation No. 246/2018 Sb.)	mineral oil (aerosols): 5 mg/m <sup>3</sup>
NPK-P (Czech Rep., Government Regulation No. 246/2018 Sb.)	mineral oil (aerosols): 10 mg/m <sup>3</sup>
AGW (Germany, TRGS 900)	mineral oil (aerosols): 5 mg/m <sup>3</sup>
NDS (Poland , Dz.U. 2014 poz. 817)	mineral oil (aerosols): 5 mg/m <sup>3</sup>
NPEL - short-time (Slovakia, Government Regulation No. 355/2006 Coll.)	mineral oil (aerosols): 3 mg/m <sup>3</sup>
NPEL - average (Slovakia, Government Regulation No. 355/2006 Coll.)	mineral oil (aerosols): 1 mg/m <sup>3</sup>
PEL (Czech Rep., Government Regulation No. 246/2018 Sb.)	mineral oil (aerosols): 5 mg/m <sup>3</sup>
NPK-P (Czech Rep., Government Regulation No. 246/2018 Sb.)	mineral oil (aerosols): 10 mg/m <sup>3</sup>
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#### Polysulfides, di-tert-Bu

DNEL inhalation/workers/long-term systemic influence:	14.5 mg/m <sup>3</sup>
DNEL inhalation/public/long-term systemic influence:	2.6 mg/m <sup>3</sup>
DNEL dermal/workers/long-term systemic influence:	3.33 mg/kg body weigh/day
DNEL dermal/public/long-term systemic influence:	1.66 mg/kg body weigh/day
PNEC (oral predators):	6.66 mg/kg food
PNEC (soil):	1513 mg/kg
PNEC (microorganisms, WOT):	4.51 mg/l
PNEC (seawater sediment):	0.094 mg/kg
PNEC (freshwater sediment):	0.94 mg/kg
PNEC (seawater):	0.000024 mg/l
PNEC (fresh water):	0.00024 mg/l

#### Mineral oils

DNEL inhalation/workers/long-term local influence:	(aerosol) 5.4 mg/m <sup>3</sup>
DNEL inhalation/public/long-term local influence:	(aerosol) 1.2 mg/m <sup>3</sup>
DNEL oral/public/long-term systemic influence:	0.74 mg/kg body weigh/day
PNEC (oral predators):	9.33 mg/kg food

### 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: liquid  
Colour: brown  
Odour: typical  
Odour threshold value: not determined  
pH: no determination necessary  
Pour point: -12 °C  
Initial boiling point and boiling range: not determined  
Flash point OK: > 230 °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: 895 kg/m<sup>3</sup> at 15 °C  
Solubility: insoluble in water  
Separation factor: n-octanol/water: not determined  
Self-ignition temperature: 390 °C  
Decomposition temperature: not determined  
Viscosity: 288 to 352 mm<sup>2</sup>/s/40 °C  
Explosive properties: not explosive  
Oxidation properties: not oxidising

**9.2 Other information**

Combustion point: 255 °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:** Criteria for product classification are not met.Mineral oils

oral toxicity LD<sub>50</sub> > 5000 mg/kg (rat, OECD TG 403)  
dermal toxicity LD<sub>50</sub> > 2000 mg/kg (rabbit, OECD TG 401)  
inhalation toxicity LC<sub>50</sub> > 5000 mg/m<sup>3</sup> (rat, OECD TG 402)

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**Skin corrosion/irritation:** Criteria for product classification are not met.

**Serious eye damage/irritation:** Criteria for product classification are not met.

**Respiratory or skin sensitization:** The product is classified as Skin Sens. 1: May cause an allergic skin reaction.

**Germ cell mutagenicity:** Criteria for product classification are not met.

Mineral oils

The PAH content is <3% (IP 346). Genetic toxicity tests in vitro or in vivo have not proved germ cell mutagenicity.

**Carcinogenicity:** Criteria for product classification are not met.

Mineral oils

The PAH content is <3% (IP 346). It is not carcinogenic in dermal or inhalation exposure.

**Reproduction toxicity:** Criteria for product classification are not met.

**STOT – single exposure:** Criteria for product classification are not met.

**STOT – repeated exposure:** Criteria for product classification are not met.

**Aspiration hazards:** Criteria for product classification are not met.

**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 oils

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 NOEL (21 days) 10 mg/l, fish NOEL (21 days) 10 mg/l

Toxicity for soil microorganisms and for soil macroorganisms: Not expected

**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:** Do not dispose of together with municipal waste. Do not dispose of waste through sewers. Waste, impaired product or unused/surplus product must be handed over to the person authorised for waste disposal according to the local law.

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:** Directive 2008/98/EC

**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

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**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.*
- ✓ 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.
- ✓ ČSN 75 3418 Protection of surface and groundwater from contamination during transportation of oil and oil products by road vehicles
- ✓ Act No. 350/2011 Coll., on chemical substances and chemical mixtures, and on amendments of some acts.
- ✓ Regulation (EU) No. 2015/830 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 oils.

**SECTION 16: OTHER INFORMATION****Standard safety phrases (H-phrases) used in the safety data sheet:**

H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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**Safe handling instructions (P-phrases) used in the safety data sheet:**

P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective clothing.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313 If skin irritation or rash occurs: Get medical advice.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P501 Dispose of contents and container according to local regulations

**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
Carc.	Carcinogenicity
CAS	Chemical Abstract Service
CLP	Regulation of Classification, Labelling and Packaging
DNEL	Derived no-effect level
EC <sub>50</sub>	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 <sub>50</sub>	half maximal inhibitory concentration
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
ISO	International Organization for Standardization
LC <sub>50</sub> / LD <sub>50</sub>	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



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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, 2.2, 3.2, 4, 8.1, 9.1, 12, 14, 15.1, 16
- ✓ The change (version 2.2) – art. 1, 2, 3.2, 4.2, 8.1, 11, 13, 15, 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*