

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| | |
|--|-------------------|
| Trade name or designation of the mixture | LPS® 1 |
| Registration number | - |
| Synonyms | None. |
| Part Number | M00115, M00155 |
| Issue date | 19-September-2017 |
| Version number | 05 |
| Revision date | 03-January-2019 |
| Supersedes date | 05-December-2018 |

1.2. Relevant identified uses of the substance or mixture and uses advised against

| | |
|----------------------|--|
| Identified uses | An industrial lubricant designed to displace moisture from mechanical and electrical equipment, provide light-duty lubrication and short-term rust prevention. |
| Uses advised against | None known. |

1.3. Details of the supplier of the safety data sheet

| | |
|----------------------|--|
| Supplier | Alsco Ltd |
| Company name | Unite 13 Hillmead Industrial Estate |
| Address | Marshall Road Swindon, Wiltshire United Kingdom SN5 5FZ |
| Telephone | +44 1793 733 900 |
| In Case of Emergency | +001 703-527-3887 |
| Manufacturer | |
| Company name | Rocol |
| Address | Rocol House Swillington Leeds LS26 8BS United Kingdom Tel: +44 (0) 113 232 2700 Fax: +44 (0) 113 232 2740 |
| e-mail | lpssds@itwprobrands.com |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

| | | |
|-------------------|------------|--|
| Health hazards | | |
| Aspiration hazard | Category 1 | H304 - May be fatal if swallowed and enters airways. |

Hazard summary Combustible. May be fatal if swallowed and enters airways.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Calcium Sulfonate, Distillates Petroleum Hydrotreated Heavy, Distillates Petroleum Hydrotreated Light, Distillates Petroleum Hydrotreated Med, Sorbitan trioleate

Hazard pictograms



Signal word Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements

Prevention Observe good industrial hygiene practices.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P331 Do NOT induce vomiting.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information EUH208 - Contains Calcium sulfonate. May produce an allergic reaction.
EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards Not a PBT or vPvB substance or mixture. Combustible.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|--|--------------------|-------------------------|------------------------|--------------|--------|
| Distillates Petroleum Hydrotreated Light | 70 - 80 | 64742-47-8 265-149-8 | 01-2119456620-43-XXXX | 649-422-00-2 | |
| Classification: | Asp. Tox. 1;H304 | | | | |
| Distillates Petroleum Hydrotreated Med | 15 - 25 | 64742-46-7 265-148-2 | - | 649-221-00-X | Note N |
| Classification: | Carc. 1B;H350 | | | | N |
| Sorbitan trioleate | 1 - 5 | 26266-58-0 247-569-3 | - | - | |
| Classification: | - | | | | |
| Calcium Sulfonate | 0,1 - 1 | 61789-86-4 263-093-9 | - | - | |
| Classification: | Skin Sens. 1B;H317 | | | | |
| Distillates Petroleum Hydrotreated Heavy | 0,1 - 1 | 64742-54-7 265-157-1 | 01-2119484627-25-XXXX | 649-467-00-8 | |
| Classification: | Carc. 1B;H350 | | | | L |

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Note N: The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Aspiration may cause pulmonary oedema and pneumonitis.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

| | |
|---|--|
| General fire hazards | Combustible liquid. |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | Alcohol resistant foam. Powder. Dry chemicals. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| 5.2. Special hazards arising from the substance or mixture | During fire, gases hazardous to health may be formed. |
| 5.3. Advice for firefighters | |
| Special protective equipment for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Special fire fighting procedures | Cool containers exposed to heat with water spray and remove container, if no risk is involved. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |

SECTION 6: Accidental release measures

| | |
|---|--|
| 6.1. Personal precautions, protective equipment and emergency procedures | |
| For non-emergency personnel | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. |
| For emergency responders | Keep unnecessary personnel away. |
| 6.2. Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| 6.3. Methods and material for containment and cleaning up | Use water spray to reduce vapours or divert vapour cloud drift. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. |
| 6.4. Reference to other sections | Not available. |

SECTION 7: Handling and storage

| | |
|--|--|
| 7.1. Precautions for safe handling | Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. |
| 7.2. Conditions for safe storage, including any incompatibilities | Store locked up. Keep away from heat and sources of ignition. Store in original tightly closed container. |
| 7.3. Specific end use(s) | Not available. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

| Components | Type | Value | Form |
|---|------|-----------------------|-----------------------------|
| Calcium Sulfonate (CAS 61789-86-4) | TWA | 5 mg/m ³ | Respirable fraction. |
| Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) | TWA | 5 mg/m ³ | Respirable aerosol fraction |
| | | 350 mg/m ³ | Vapour. |
| | | 50 ppm | Vapour. |

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

| Components | Type | Value | Form |
|------------------------------------|------|---------------------|----------------------|
| Calcium Sulfonate (CAS 61789-86-4) | AGW | 5 mg/m ³ | Respirable fraction. |

Switzerland. SUVA Grenzwerte am Arbeitsplatz**Components****Type****Value**Distillates Petroleum
Hydrotreated Light (CAS
64742-47-8)

STEL

700 mg/m³

TWA

350 mg/m³**Biological limit values**

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment**General information**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection**- Hand protection**

Wear appropriate chemical resistant gloves.

- Other

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance****Physical state**

Liquid.

Form

Liquid.

Colour

Amber.

Odour

Characteristic.

Odour threshold

Not available.

pH

Not applicable

Melting point/freezing point

< -50 °C (< -58 °F)

Initial boiling point and boiling range

213 °C (415,4 °F)

Flash point

79,0 °C (174,2 °F) Tag closed cup (dispensed liquid)

Evaporation rate

< 0,1 (BuAc = 1)

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits**Flammability limit - lower (%)**

0,6 %

Flammability limit - upper (%)

7 %

Vapour pressure

< 0,05 mm Hg @ 20°C

Vapour density

> 1 (Air = 1)

Relative density

0,79 - 0,81 @ 20°C

| | |
|--|---|
| Solubility(ies) | |
| Solubility (water) | Not soluble |
| Partition coefficient (n-octanol/water) | < 1 |
| Auto-ignition temperature | > 228 °C (> 442,4 °F) |
| Decomposition temperature | Not established |
| Viscosity | < 3,8 cSt @ 25°C |
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising. |
| 9.2. Other information | |
| Heat of combustion | Not established |
| Percent volatile | 95 - 96 % |
| VOC | 0,4 % per US State & Federal Consumer Product Regulations |

SECTION 10: Stability and reactivity

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|---|---|
| 10.1. Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability | Material is stable under normal conditions. |
| 10.3. Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| 10.4. Conditions to avoid | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| 10.5. Incompatible materials | Strong oxidising agents. |
| 10.6. Hazardous decomposition products | Carbon oxides. |

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | No adverse effects due to skin contact are expected. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |

Symptoms Aspiration may cause pulmonary oedema and pneumonitis.

11.1. Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

| Components | Species | Test Results |
|---|---------|------------------------|
| Calcium Sulfonate (CAS 61789-86-4) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg, 24 Hours |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |
| Distillates Petroleum Hydrotreated Heavy (CAS 64742-54-7) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 3,9 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | > 2000 mg/kg |
| Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 2000 mg/kg |

| Components | Species | Test Results |
|--|--|------------------------|
| Oral LD50 | Rat | > 5000 mg/kg |
| Distillates Petroleum Hydrotreated Med (CAS 64742-46-7) | | |
| Acute | | |
| Dermal LD50 | Rabbit | > 2000 mg/kg, 24 Hours |
| Oral LD50 | Rat | > 5000 mg/kg |
| Sorbitan trioleate (CAS 26266-58-0) | | |
| Acute | | |
| Oral LD50 | Rat | > 40000 mg/kg |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. | |
| Respiratory sensitisation | Not a respiratory sensitizer. | |
| Skin sensitisation | May cause an allergic skin reaction. | |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. | |
| Carcinogenicity | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. | |
| Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended) | | |
| Distillates Petroleum Hydrotreated Heavy (CAS 64742-54-7) | | |
| Distillates Petroleum Hydrotreated Med (CAS 64742-46-7) | | |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. | |
| Specific target organ toxicity - single exposure | Not classified. | |
| Specific target organ toxicity - repeated exposure | Not classified. | |
| Aspiration hazard | May be fatal if swallowed and enters airways. | |
| Mixture versus substance information | No information available. | |
| Other information | None known. | |

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

| Components | Species | Test Results |
|---|--|--------------------|
| Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) | | |
| Aquatic | | |
| Fish | LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2,9 mg/l, 96 hours |

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

LPS® 1 < 1

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-------------------------------------|--|
| Residual waste | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| EU waste code | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Disposal methods/information | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Special precautions | Dispose in accordance with all applicable regulations. |

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

EU Regulation 648/2004, Annex VII, Content Labeling for Detergents

Not listed

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Distillates Petroleum Hydrotreated Heavy (CAS 64742-54-7)

Distillates Petroleum Hydrotreated Med (CAS 64742-46-7)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Distillates Petroleum Hydrotreated Heavy (CAS 64742-54-7)

Distillates Petroleum Hydrotreated Med (CAS 64742-46-7)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

Revision information

SECTION 2: Hazards identification: Supplemental label information

Training information

Follow training instructions when handling this material.

Disclaimer

Rocol cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.