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

1.1. Product identifier

Trade name or designation of the mixture: LUB UNIVERSAL

Registration number: -

Synonyms: None.

Product code: C31003-NTN

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

Identified uses: Lubricant grease

Uses advised against: Not available.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name: NTN-SNR ROULEMENTS

Address: 1, rue des Usines
BP 2017
74000 ANNECY
FR

Division

Telephone: Tel.: +33 (0)4 50 65 30 00
Fax: +33 (0)4 50 65 32 91

e-mail: fds@ntn-snr.fr

Contact person: Service Laboratoire NTN-SNR Roulements

1.4. Emergency telephone number

Emergency Tel. (Office hours): +33 (0)4 50 65 97 55

Emergency Tel. (France): ORFILA (INRS) + 33 (0)1 45 42 59 59

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

This mixture is not classified as hazardous according to the criteria for classification of the Regulation (EC) 1272/2008 as amended.

2.2. Label elements

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

Hazard pictograms: None.

Signal word: None.

Hazard statements: The mixture does not meet the criteria for classification.

Precautionary statements

Prevention: Observe good industrial hygiene practices.

Response: Wash hands after handling.

Storage: Store away from incompatible materials.

Disposal: Not available.

Supplemental label information: EUH208 - Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction. EUH210 - Safety data sheet available on request.
2.3. Other hazards

This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>Index No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>30 - &lt; 40</td>
<td>64742-52-5 265-155-0</td>
<td>01-2119467170-45-XXXX</td>
<td>649-465-00-7</td>
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<tr>
<td>Classification:</td>
<td>Asp. Tox. 1;H304</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Olefin sulfide</td>
<td>1 - &lt; 3</td>
<td>N/D</td>
<td>-</td>
<td>-</td>
<td>#</td>
</tr>
<tr>
<td>Classification:</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</td>
<td>&lt; 1</td>
<td>N/D</td>
<td>01-2119978241-36-XXXX</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td>Skin Sens. 1B;H317</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

List of abbreviations and symbols that may be used above

- "-" = Not available or this substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.
- #: 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.

Composition comments

Occupational Exposure Limits for constituents are listed in Section 8. The full text for all H-statements is displayed in section 16.

- Contains : Mineral oil
- DMSO Extract < 3% according to IP 346 Method.

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

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

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

Rinse mouth thoroughly. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

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

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards

Will burn if involved in a fire. No unusual fire or explosion hazards noted.
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5.1. Extinguishing media
   Suitable extinguishing media: Foam. Dry chemicals. Carbon dioxide (CO2). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
   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
   See also section 10.

5.3. Advice for firefighters
   Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
   In case of fire and/or explosion do not breathe fumes. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
   In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
   For non-emergency personnel: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.
   For emergency responders: Keep unnecessary personnel away. Use personal protective equipment recommended in Section 8 of the SDS.

6.2. Environmental precautions
   Local authorities should be advised if significant spillages cannot be contained. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up
   The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk.

6.4. Reference to other sections
   For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
   To avoid thermal decomposition, do not overheat. Avoid prolonged or repeated contact with skin. Wash hands after handling. Handle in accordance with good industrial hygiene and safety practices. Adequate ventilation should be provided so that exposure limits are not exceeded.

7.2. Conditions for safe storage, including any incompatibilities
   Keep away from heat and sources of ignition. Store in closed original container in a dry place. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)
   Not available.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters

<table>
<thead>
<tr>
<th>Occupational exposure limits</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Olefin sulfide</td>
<td>STEL</td>
<td>10 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 ppm</td>
</tr>
<tr>
<td>EU Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Olefin sulfide</td>
<td>TWA</td>
<td>7 mg/m3 8 hours</td>
</tr>
</tbody>
</table>

SDS UK 3 / 8
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.

Exposure guidelines
Occupational Exposure Limits are not relevant to the current physical form of the product.

8.2. Exposure controls
Ensure adequate ventilation, especially in confined areas.

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
Chemical goggles are recommended.

Skin protection

- Hand protection
Use protective gloves made of: Nitrile. Polyvinyl chloride (PVC).

- Other
Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

Hygiene measures
Wash hands after handling. Handle in accordance with good industrial hygiene and safety practices.

Environmental exposure controls
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state
Solid.

Form
Solid. Paste.

Colour
Blonde.

Odour
Oily. Mild.

Odour threshold
Not available.

pH
Not applicable.

Melting point/freezing point
Not available.

Initial boiling point and boiling range
Not available.

Flash point
230.0 °C (446.0 °F) Open cup Base oil

Evaporation rate
Not available.

Flammability (solid, gas)
Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
Not available.
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Flammability limit -
  upper (%)
Vapour pressure
Vapour density
Relative density
Relative density temperature
Solubility(ies)
  Solubility (water)
Partition coefficient
  (n-octanol/water)
Auto-ignition temperature
Decomposition temperature
Viscosity
Viscosity temperature
Explosive properties
Oxidising properties
9.2. Other information
  Dropping point

SECTION 10: Stability and reactivity
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 decomposition temperature. Contact with incompatible materials. Eliminate all sources of ignition.
10.5. Incompatible materials
Strong oxidising agents.
10.6. Hazardous decomposition products
Sulphur compounds. At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity
Elevated temperatures or mechanical action may form vapours, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhoea.
Skin corrosion/irritation
Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Serious eye damage/eye irritation
Not classified.
Respiratory sensitisation
Not classified.
Skin sensitisation
Not classified.
Germ cell mutagenicity
Not classified.
Carcinogenicity
Not classified.
Reproductive toxicity
Not classified.
Specific target organ toxicity
- single exposure
Not classified.
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Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
Not classified.

Mixture versus substance information
No information available.

Other information
Not available.

SECTION 12: Ecological information

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

12.2. Persistence and degradability
No data is available on the degradability of this product.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
The product is immiscible with water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment
This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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
16 03 06 Waste codes should be assigned by the user based on the application for which the product was used. Unused product:

Disposal methods/information
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground.

Special precautions
Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR
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.
SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
  Not listed.
  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.
  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
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.
  Not listed.

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 (CLF 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 in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.
SECTION 16: Other information

List of abbreviations

- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS: Chemical Abstract Service.
- CEN: European Committee for Standardization.
- IATA: International Air Transport Association.
- IBC: Intermediate Bulk Container.
- PBT: Persistent, bioaccumulative, toxic.
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
- STEL: Short term exposure limit.
- TWA: Time Weighted Average.
- vPvB: Very persistent and very bioaccumulative.

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.

Revision information

None.

Training information

Follow training instructions when handling this material.

NTN-SNR ROULEMENTS 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 in the sheet was written based on the best knowledge and experience currently available. This document complements the technical sheets but does not replace them. The information contained herein is based on our knowledge of the concerned product on the date indicated. It is offered in good faith. Furthermore, the regulatory requirements referred to must not be considered as exhaustive. They do not exempt in any form the user from knowing and applying all regulations related to the possession and use of the product. The user takes as their sole responsibility the implementation of precautions relating to storage and their use of the product.