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

1.1. Product identifier

Trade name or designation of the mixture: LUB HEAVY DUTY

Registration number: -

Synonyms: None.

Product code: C31031-NTN

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

Identified uses: See Technical Data Sheet.

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: Service Laboratoire NTN-SNR Roulements

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

1.4. Emergency telephone number

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.
2.3. Other hazards

Not assigned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

List of abbreviations and symbols that may be used above

- CLP: Regulation No. 1272/2008. "-" = Not available or this substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.
- M: M-factor
- vPvB: very persistent and very bioaccumulative substance.
- PBT: persistent, bioaccumulative and toxic substance.
- #: This substance has been assigned Community workplace exposure limit(s).

Composition comments

Occupational Exposure Limits for constituents are listed in Section 8.
- Contains: Mineral oil
The full text for all H-statements is displayed in section 16. DMSO Extract < 3% according to IF 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. If swallowed, do NOT induce vomiting. 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

No unusual fire or explosion hazards noted.

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

- Special protective equipment for firefighters
  - Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
SAFETY DATA SHEET

Product: LUB HEAVY DUTY
Code: C31031-NTN
Revision: 18-May-2017

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.

For emergency responders
Keep unnecessary personnel away. Use personal protection 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
See Section 8 for personal protective equipment. 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

Occupational exposure limits
No exposure limits noted for ingredient(s).

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

Recommended monitoring procedures
Follow standard monitoring procedures.

Derived no-effect level (DNEL)
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
Appropriate engineering 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). Suitable gloves can be recommended by the glove supplier.

- 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
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: Solid.
- Form: Solid. Paste.
- Colour: Blonde.
- Odour: Oily.
- Odour threshold: Not available.
- pH: Not applicable.
- Melting point/freezing point: Not available.
- Initial boiling point and boiling range: Not available.
- Flash point: > 200.0 °C (> 392.0 °F)
- Evaporation rate: Not available.
- Flammability (solid, gas): Not available.
- Upper/lower flammability or explosive limits
  - Flammability limit - lower (%): Not available.
  - Flammability limit - upper (%): Not available.
- Vapour pressure: Not available.
- Vapour density: Not available.
- Relative density: 0.9
- Relative density temperature: 20 °C (68 °F)
- Solubility(ies)
  - Solubility (water): Insoluble.
  - Solubility (other): Not available.
- Partition coefficient (n-octanol/water): Not available.
- Auto-ignition temperature: > 250 °C (> 482 °F)
- Decomposition temperature: Not available.
- Viscosity: Not applicable.
- Explosive properties: Not available.
- Oxidising properties: Not oxidising.

9.2. Other information
- Dropping point: > 190 °C (> 374 °F)

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
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

<table>
<thead>
<tr>
<th>Effect Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute toxicity</strong></td>
<td>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. Specific Target Organ Toxicity, Single Exposure Category 3 respiratory tract irritatio</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.</td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td>Not classified.</td>
</tr>
<tr>
<td><strong>Respiratory sensitisation</strong></td>
<td>Not classified.</td>
</tr>
<tr>
<td><strong>Skin sensitisation</strong></td>
<td>Not classified.</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>Not classified.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>Not classified.</td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td>Not classified.</td>
</tr>
<tr>
<td><strong>Specific target organ toxicity - single exposure</strong></td>
<td>Not classified.</td>
</tr>
<tr>
<td><strong>Specific target organ toxicity - repeated exposure</strong></td>
<td>Not classified.</td>
</tr>
<tr>
<td><strong>Aspiration hazard</strong></td>
<td>Not classified.</td>
</tr>
<tr>
<td><strong>Mixture versus substance information</strong></td>
<td>No information available.</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### SECTION 12: Ecological information

#### 12.1. Toxicity
Not classified as an environmental hazard.

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

#### 12.3. Bioaccumulative potential
No data available.

#### Partition coefficient n-octanol/water (log Kow)
Not available.

#### Bioconcentration factor (BCF)
Not available.

#### 12.4. Mobility in soil
No data available.

#### Mobility in general
The product is immiscible with water and will spread on the water surface.

#### 12.5. Results of PBT and vPvB assessment
Not available.
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

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

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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

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 (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
  Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
  Not listed.
- Regulation (EC) No. 689/2008 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
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.
Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended
Not listed.
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.
Other EU regulations
Directive 2012/18/EU on major accident hazards involving dangerous substances
Not listed.
Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended
Not listed.
Directive 94/33/EC on the protection of young people at work, as amended
Not listed.
Other regulations
The product is classified and labelled in accordance with EC directives or respective national laws. 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
None.
Revision information
None.
Training information
Follow training instructions when handling this material.

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. The information in the sheet was written based on the best knowledge and experience currently available.