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

1.1 Product identifier
LUB UNIVERSAL +

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Lubricants, greases, release products
Observe technical data sheet.

1.3 Details of the supplier of the safety data sheet
Company: NTN-SNR ROULEMENTS
1, rue des Usines - BP 2017
74000 ANNECY France
Tel : +33 (0)4 50 65 30 00
Fax : +33 (0)4 50 65 32 91

E-mail address of person responsible for the SDS: fds@ntn-snr.fr
Laboratory Service NTN-SNR Roulements
National contact:

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
Emergency Tel. (EU): 112 (Available 24 hours a day)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP]
None
Classification procedure
Calculation method.

2.2 Label elements
None

2.3 Other hazards
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Hazardous ingredients
None

3.3 Additional information
Highly refined mineral oil (IP 346 DMSO extract < 3%).

SECTION 4: First aid measures
4.1 Description of first aid measures

General information
Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice. In the event of cardiac arrest immediately perform cardiopulmonary resuscitation.

Following inhalation
Remove casually to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. When in doubt or if symptoms are observed, get medical advice.

In case of skin contact
After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician. Oils and greases injected under your skin with high pressure equipment is a serious damage. Seek medical attention IMMEDIATELY. Bring a copy of this safety data sheet with you to the hospital for information to the medical staff.

After eye contact
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye. Call a physician immediately.

After ingestion
Rinse mouth thoroughly with water. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
The following symptoms may occur: Respiratory complaints, Headache, Dizziness, Nausea. Symptoms can occur only after several hours.

4.3 Indication of any immediate medical attention and special treatment needed
None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Foam, Extinguishing powder, Carbon dioxide (CO2), Sand.
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media
Water

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulphur oxides, Carbon monoxide, Aliphatic and aromatic pyrolysis products, Phosphorus oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters
Do not inhale explosion and combustion gases. In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product. Provide fresh air.
Avoid contact with skin, eyes and clothes.
Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

For non-emergency personnel
Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Special danger of slipping by leaking/spilling product. Provide adequate ventilation. See protective measures under point 7 and 8.

**For emergency responders**
Suitable material: NBR (Nitrile rubber)
Unsuitable material: Butyl caoutchouc (butyl rubber), NR (natural rubber, natural latex), CR (polychloroprene, chloroprene rubber)

### 6.2 Environmental precautions
Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3 Methods and material for containment and cleaning up

**For containment**
Clear spills immediately. Cover drains.

**For cleaning up**
Take up with oil-absorbing compound. Treat the recovered material as prescribed in the section on waste disposal. Never return spills in original containers for re-use. Clean contaminated articles and floor according to the environmental legislation. Retain contaminated washing water and dispose it.

### 6.4 Reference to other sections
Wear personal protection equipment (refer to section 8). Disposal: see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling
No hazardous reaction when handled and stored according to provisions. (Health hazards: None). Avoid contact with skin, eyes and clothes.
Limit exposure to vapours and aerosols. Provide fresh air.
Respiratory protection necessary at: generation/formation of aerosols, insufficient ventilation, insufficient exhaust.

**Protective measures**

- **Measures to prevent fire**
  - No special fire protection measures are necessary.

- **Measures to prevent aerosol and dust generation**
  - No special measures are necessary.

- **Specific requirements or handling rules**
  - No special measures are necessary.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Packaging materials**
Unsuitable container/equipment material: None

**Requirements for storage rooms and vessels**
Floors should be impervious, resistant to liquids and easy to clean. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Shafts and sewers must be protected from entry of the product. Keep/Store only in original container. Protect containers against damage. Ensure adequate ventilation of the storage area.

**Hints on joint storage**
Possibility of hazardous reactions: Oxidising agent.

**Further information on storage conditions**
- Keep/Store only in original container. Keep in a cool, well-ventilated place.
- Do not store at temperatures below: 0 °C.
- Recommended storage temperature: 0 °C - 40 °C.
- Protect against: Protect against direct sunlight. Keep away from heat.
- Storage stability: >= 6 months. Observe technical data sheet.

#### 7.3 Specific end use(s)
None

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters
None
8.2 Exposure controls
A substance-tailored exposure-driven testing according to REACH, annex XI, chapter 3 was not performed.

Appropriate engineering controls
See section 7. No additional measures necessary.

Personal protection equipment
Technical measures and the application of suitable work processes have priority over personal protection equipment.

Eye/face protection
Additional eye protection measures: Wear eye/face protection.

Skin protection
Hand protection
Tested protective gloves must be worn. Breakthrough time (maximum wearing time): 4 hours (NBR (Nitrile rubber), Thickness of the glove material: 0.4 mm). See information supplied by the manufacturer. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Unsuitable materials: Butyl caoutchouc (butyl rubber), NR (natural rubber, natural latex), CR (polychloroprene, chloroprene rubber).

Respiratory protection
Usually no personal respirator protection necessary.

General health and safety measures
Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs. Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: liquid
Colour: brown

Odour
characteristic

Safety relevant basis data
Melting point/melting range: (1013 hPa) > 170 °C
Initial boiling point and boiling range: (1013 hPa) > 250 °C
Decomposition temperature: not determined
Flash point: > 200 °C
Lower explosion limit: not determined
Upper explosion limit: not determined
Danger of explosion: No explosive hazard
Density: (20 °C) approx. 0.93 g/cm³ DIN 51757

Solubility in / Miscibility with Water: Not miscible or difficult to mix.

log P O/W:
Odour threshold:
Relative vapour density: (20 °C) not determined
Vapourisation rate:
Flammable solids: Not determined.
Oxidising solids: Not oxidizing.

9.2 Other information
None

SECTION 10: Stability and reactivity

10.1 Reactivity
This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.
10.3 **Possibility of hazardous reactions**
No hazardous reaction when handled and stored according to provisions.

10.4 **Conditions to avoid**
In case of exceeding the storage temperature: Danger of bursting container.

10.5 **Incompatible materials**
Reaction with oxidizing agents possible. Acid

10.6 **Hazardous decomposition products**
Does not decompose when used for intended uses. Thermal decomposition can lead to the escape of irritating gases and vapours. Hazardous decomposition products: Carbon monoxide, Carbon dioxide, aldehydes, Ketone, Sulphur oxides, Nitrogen oxides (NOx), Phosphorus oxides

**SECTION 11: Toxicological information**

11.1 **Information on toxicological effects**

**Acute effects**
- **Acute oral toxicity**
  Based on available data, the classification criteria are not met.
- **Acute dermal toxicity**
  Based on available data, the classification criteria are not met.
- **Acute inhalation toxicity**
  Based on available data, the classification criteria are not met.

**Irritant and corrosive effects**
- **Primary irritation to the skin**
  Based on available data, the classification criteria are not met.
- **Irritation to eyes**
  Based on available data, the classification criteria are not met.
- **Irritation to respiratory tract**
  Based on available data, the classification criteria are not met.

**Sensitisation**
- **In case of skin contact**
  Based on available data, the classification criteria are not met.
- **In case of inhalation**
  Based on available data, the classification criteria are not met.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Carcinogenicity**
  Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**
  Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
  Based on available data, the classification criteria are not met.

**STOT-single exposure**
Based on available data, the classification criteria are not met.

**STOT-repeated exposure**
Based on available data, the classification criteria are not met.

**Aspiration hazard**
Based on available data, the classification criteria are not met.

11.3 **Symptoms related to the physical, chemical and toxicological characteristics**

- **In case of ingestion**
  No known symptoms to date.
- **In case of skin contact**
  No known symptoms to date.
- **In case of inhalation**
  No known symptoms to date.
- **In case of eye contact**
  No known symptoms to date.
SECTION 12: Ecological information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

12.1 Toxicity
There are no data available on the mixture itself.

12.2 Persistence and degradability
There are no data available on the mixture itself.

12.3 Bioaccumulative potential
There are no data available on the mixture itself.

12.4 Mobility in soil
There are no data available on the mixture itself.

12.5 Results of PBT and vPvB assessment
There are no data available on the mixture itself.

12.6 Other adverse effects
There are no data available on the mixture itself.

12.7 Additional ecotoxicological information
None

SECTION 13: Disposal considerations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Recycle according to official regulations.

13.1 Waste treatment methods
Product/Packaging disposal
The waste is to be kept separate from other types of waste until its recycling. Recycle according to official regulations. Waste for recycling is to be classified and labelled.

Waste codes/waste designations according to EWC/AVV
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste code product
List of proposed waste codes/waste designations in accordance with AAV : 120112*

Waste code packaging
List of proposed waste codes/waste designations in accordance with AAV : 150110*

Waste treatment options
Appropriate disposal / Product
Evidence for disposal must be provided. Send to a hazardous waste incinerator facility under observation of official regulations.

Appropriate disposal / Package
Contaminated packages must be completely emptied and can be re-used following proper cleaning. Non-contaminated packages must be recycled or disposed of. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself. Evidence for disposal must be provided.

Other disposal recommendations
Dispose according to legislation. Do not allow to enter into surface water or drains.

SECTION 14: Transport information

14.1 UN number
No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name
No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)
No dangerous good in sense of these transport regulations.

14.4 Packing group
No dangerous good in sense of these transport regulations.

14.5 Environmental hazards
14.6 Special precautions for user
None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU legislation
Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]. This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: None

Other regulations (EU)
Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
Volatile organic compounds (VOC) content in percent by weight: <3
Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
not relevant

15.2 Chemical safety assessment
For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes
01. Relevant identified uses · 02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients · 03. Composition / Information on ingredients · Additional information · 05. Special hazards arising from the substance or mixture · Hazardous combustion products · 06. Methods and material for containment and cleaning up · For cleaning up · 07. Further information on storage conditions · Recommended storage temperature · 07. Further information on storage conditions · Storage stability · 09. Physical state · 10. Hazardous decomposition products · 13. Waste code product · 13. Appropriate disposal / Product

16.2 Abbreviations and acronyms
None

16.3 Key literature references and sources for data
Data arise from reference works and literature.

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
Calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)
GHS Hazard statements of components

16.6 Training advice
None

16.7 Additional information
During mixing, observe all labels and safety data sheets of all the components. Please refer to our internet website for more information: See section 1.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.