
**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment
Regulation (EC) No. 453/2010**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/
UNDERTAKING**

1.1. Product identifier

Product form : Mixture
Product name : HYDRAULIC OIL
Product code:
Product group: Blend

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

1.2.1 Relevant identified uses

Main use category: Industrial use, Professional use, Consumer use

Industrial/Professional use spec: Non-dispersive use
Used in closed systems

Function or use category: Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Name NTN-SNR ROULEMENTS

Address

1, rue des Usines
BP 2017
74000 ANNECY
FRANCE

Phone number

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

Email address

fds@ntn-snr.fr
Laboratory Service NTN-SNR Roulements

1.4. Emergency Phone Number

Emergency Number

Urgent Call (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

Classification according to Regulation (EC) No 1272/2008

Not classified

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

- **EUH-statements** : EUH210 - Safety data sheet available on request
- **Child-resistant fastening** : No
- **Tactile warning** : No

2.3. Other Hazards

No additional information available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance Not applicable

3.2. Mixture

Name Product identifier % Classification according to Regulation (EC) No. 1272/2008 [CLP]

Baseoil - unspecified (CAS No) 64742-55-8 (EC no) 265-158-7 (EC index no) 649-468-00-3 10 - 24,99
Asp. Tox. 1, H304

Zinkalkyldithiophosphate (CAS No) 68649-42-3 (EC no) 272-028-3 (REACH-no) 01-2119493635-27 0,1
- 0,99 Eye Dam. 1, H318 Aquatic Chronic 2, H411

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Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures after inhalation: Not expected to require first aid measures.

First-aid measures after skin contact: Wash skin with mild soap and water.

First-aid measures after eye contact: In case of eye contact, immediately rinse with clean water for 10-15 minutes.

First-aid measures after ingestion: Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

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

Symptoms/injuries after inhalation: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact: Not expected to present a significant skin hazard under anticipated conditions of normal use.

Symptoms/injuries after eye contact: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.

Symptoms/injuries after ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

- Water fog.
- Foam.
- Powder.
- Dry chemical product.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Use water spray or fog for cooling exposed containers.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Wear suitable protective clothing and gloves

6.1.2. For emergency responders

Protective equipment: Wear suitable protective clothing and gloves

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters..

6.3. Methods and material for containment and cleaning up

For containment: Impound and recover large spill by mixing it with inert granular solids.

Methods for cleaning up: Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.

Other information: Spill area may be slippery. Use suitable disposal containers.

6.4. Reference to other sections

No additional information available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.

Handling temperature : < 40 °C

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage temperature : < 40 °C

Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

No additional information available

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SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. Control parameters

Additional information: 5 mg/m³ for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

8.2. Exposure controls

Personal protective equipment: Safety glasses. Gloves.

Hand protection: Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR)

Skin and body protection: No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- **Physical state** : Liquid
- **Appearance** : Oily liquid.
- **Colour** : Blue.
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- **Odour** : Characteristic.
- **Odour threshold** : No data available
- **pH** : No data available
- **Relative evaporation rate (butylacetate=1)** : No data available
- **Melting point** : No data available
- **Freezing point** : No data available
- **Boiling point** : No data available
- **Flash point** : > 180 °C @ ASTM D92 Auto-ignition temperature : No data available
- **Decomposition temperature** : No data available
- **Flammability (solid, gas)** : No data available
- **Vapour pressure** : No data available
- **Relative vapour density at 20 °C** : No data available
- **Relative density** : No data available
- **Density** : 872 kg/m³ @15°C
- **Solubility** : Slightly soluble, the product remains on the water surface.
- **Log Pow** : No data available
- **Viscosity, kinematic** : 32 mm²/s @ 40°C
- **Viscosity, dynamic** : No data available
- **Explosive properties** : No data available
- **Oxidising properties** : No data available
- **Explosive limits** : No data available

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None under normal conditions

10.4. Conditions to avoid

No data available

10.5. Incompatible Materials

- Strong oxidizers
- Acids
- Bases

10.6. Hazardous decomposition products

None under normal conditions

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity: Not classified

Baseoil - unspecified (64742-55-8)

- LD50 oral rat > 5000 mg/kg
- LD50 dermal rabbit > 3000 mg/kg
- Skin corrosion/irritation: Not classified
- Serious eye damage/irritation: Not classified
- Respiratory or skin sensitization: Not classified
- Germ cell mutagenicity: Not classified
- Carcinogenicity: Not classified
- Reproductive toxicity: Not classified
- Specific target organ toxicity (single exposure): Not classified
- Specific target organ toxicity (repeated exposure): Not classified

- Aspiration hazard : Not classified
- Viscosity, kinematic 32 mm²/s @ 40°C

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Persistence and degradability Not soluble in water, so only minimally biodegradable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Additional information: Dispose in a safe manner in accordance with local/national regulations

SECTION 14: TRANSPORT INFORMATION IN ACCORDANCE WITH ADR / RID / IMDG / IATA / ADN

14.1. UN Number

Not regulated for transport

14.2. UN proper shipping name

- Proper Shipping Name (ADR) : Not applicable
- Proper Shipping Name (IMDG) : Not applicable
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- Proper Shipping Name (IATA) : Not applicable
- Proper Shipping Name (ADN) : Not applicable

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Proper Shipping Name (RID):

Not applicable 14.3.

- Transport hazard class(es) ADR Transport hazard class(es) (ADR) : Not applicable
- IMDG Transport hazard class(es) (IMDG) : Not applicable
- IATA Transport hazard class(es) (IATA) : Not applicable
- ADN Transport hazard class(es) (ADN) : Not applicable
- RID Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

- Packing group (ADR) : Not applicable
- Packing group (IMDG) : Not applicable
- Packing group (IATA) : Not applicable
- Packing group (ADN) : Not applicable
- Packing group (RID) : Not applicable

14.5. Environmental hazards

- Dangerous for the environment: No
- Marine pollutant: No
- Other information: No supplementary information available

14.6. Special precautions for user

- **Overland transport** No data available
- **Transport by sea** No data available
- **Air transport** No data available
- **Inland waterway transport** No data available
- **Rail transport** No data available

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

Not applicable

SECTION 15: REGULATORY INFORMATION

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

15.1.1. EU Regulations

- Contains no REACH substances with Annex XVII restrictions
- Contains no substance on the REACH candidate list
- Contains no REACH Annex XIV substances

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

Section 16: OTHER INFORMATION

Indication of changes

3.2. Composition / information on ingredients

Modified abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists

TWA: Time Weighted Average

TLV: Threshold Limit Value

ASTM: American Society for Testing and Materials

ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin

IMDG: International Maritime Dangerous Goods

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

STEL: Short Term Exposure Limit

LD50: median Lethal Dose for 50% of subjects

ATE: acute toxicity estimate

LC50: median Lethal Concentration for 50% of subjects

EC50: concentration producing 50% effect

Other information:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H304	May be fatal if swallowed and enters airways
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects
EUH210	Safety data sheet available on request

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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