



SAFETY DATA SHEET

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Revised edition no : 2

Date : 8 / 9 / 2011

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BASE OIL SN 500

PRODUCT CODE
10401

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

- 1.1 Product identifier** : BASE OIL SN 500
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.2.1 Relevant identified uses** : Base oil for lubricants.
- 1.2.2 Uses advised against** : This oil should not be used for any other purpose than the intended use as a base oil without expert advice.
- 1.3 Details of the supplier of the safety data sheet** : Transnational Blenders B.V.
Wieldrechtseweg 37
3316 BG - Dordrecht - Nederland
Tel: +31 786527652
E-mail: technicalsupport@gulf.nl
- 1.4 Emergency telephone number** : +31 786527652

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

- 2.1.1 Classification according to Directive 1999/45/EC** : This product does not meet the classification requirements of the current European legislation.
- 2.1.2 Most important adverse physicochemical effects** : Combustible liquid.
- 2.1.3 Most important adverse human health effects** : Prolonged or repeated skin contact with the material will remove natural oils and could lead to a dermatitis.
- 2.1.4 Most important adverse environmental effects** : Spills may contaminate water supplies / pollute public waters.

2.2 Label elements:

- 2.2.4 Safety advices** : Do not empty into drains ; dispose of this material and its container in a safe way.
- 2.3 Other hazards** : Overexposure to oil mist may cause respiratory irritations.
Oil mist deposited on surfaces may cause slip hazard.

SECTION 3: Composition/information on ingredients

- 3.1 Description of the mixture** : A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil, and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil having a viscosity of approximately 112 cSt @ 40 °C. It contains a relatively large proportion of saturated hydrocarbons.

3.2 Composition of the mixture:

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Lubricating oils(petroleum), C20- : C50, hydrotreated neutral oil- based, high-viscosity.	100 %	72623-85-9	276-736-3	649-481-00-4	-----	Not classified (DSD/DPD)

SECTION 4: First aid measures

4.1 Description of first aid measures:

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SECTION 4: First aid measures (continued)

- After inhalation : Assure fresh air breathing. If you feel unwell, seek medical advice.
- After contact with skin : Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water. Never use kerosine or gasoline for cleaning the skin.
- After contact with the eyes : Rinse immediately with plenty of water. Seek medical attention if irritation develops.
- After ingestion : Do not induce vomiting. Seek medical attention immediately.
- 4.2 Most important symptoms and effects, both acute and delayed : No acute or delayed symptoms or effects are anticipated if first aid treatment is applied and is effective.
- 4.3 Indication of any immediate medical attention and special treatment needed : No immediate medical attention or special treatment needed.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media : Water fog. Carbon dioxide. Foam. Dry chemical product.

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

5.2 Special hazards arising from the substance or mixture : Under fire conditions, hazardous fumes will be present.

5.3 Advice for firefighters:

5.3.1 Protective actions : Avoid fire-fighting water to enter environment.

5.3.2 Special protective equipment for fire-fighters : Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

5.3.3 Surrounding fires : Use water spray or fog for cooling exposed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel : Evacuate unnecessary personnel.

6.1.2 For emergency responders : Equip cleanup crew with proper protection. Wear suitable protective clothing, gloves and eye or face protection. Eliminate every possible source of ignition.

6.2 Environmental precautions : Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3.2 Appropriate clean-up procedures : Clean up even minor leaks or spills and spread granular absorbent promptly. Collect spills and put it into appropriated container.

6.4 Reference to other sections : See also headings 8 & 13 for additional information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

7.1.1 Measures to prevent fire, aerosol and dust generation : Keep away from sources of ignition. No naked lights. No smoking. Proper grounding procedures to avoid static electricity should be followed.

7.1.3 Advice on general occupational hygiene : When using, do not eat, drink or smoke. Wash hands and other exposed areas with soap and water before leaving work.

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SECTION 7: Handling and storage (continued)

7.2 Conditions for safe storage, including any incompatibilities:

- 7.2.1 Technical protective measures** : Local exhaust and general ventilation must be adequate to meet exposure standards.
- 7.2.2 Conditions of storage** : Store this product in a dry location where it can be protected from the elements. Do not store near oxidizing agents or acidic material. Store at temperatures not exceeding 50 °C/122 °F.
- 7.2.3 Specific designs for storage rooms or vessels** : Store in tightly closed, properly ventilated containers away from heat, sparks, open flame, strong oxidizers, radiations, and other initiators.
- 7.3 Specific end use(s)** : See Product Data Sheet for detailed information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

- 8.1.1 Occupational exposure limit values** : The American Conference of Governmental Industrial Hygienists (ACGIH) has assigned mineral oil mist a threshold limit value (TLV) of 5 mg/m(3) as a Time Weighted Average (TWA) for a normal 8-hour workday and a 40-hour workweek and a short-term exposure limit (STEL) of 10 mg/m(3) for periods not to exceed 15 minutes. Exposures at the STEL concentration should not be repeated more than four times a day and should be separated by intervals of at least 60 minutes. [ACGIH 1994, p. 28]
United Kingdom: Occupational Exposure Standard (OES) of 5 mg/m³, 8-hour time-weighted average reference period for oil mist.
- 8.1.2 Biological limit values** : No data available.

8.2 Exposure controls:

- 8.2.1 Appropriate engineering controls** : Use adequate ventilation to keep oil mist below applicable standard.

8.2.2 Individual protection measures, such as personal protective equipment:

- **Eye / face protection** : Chemical goggles or safety glasses. (EN 166).
 - **Skin protection** : Wear suitable protective clothing. (EN 465, EN 466 or EN 467).
 - **Hand protection** : Wear suitable gloves resistant to chemical penetration. (EN 374)
 - **Respiratory protection** : The use of Filtertype A (EN 141) is recommended If exceeding the Occupational Exposure Limit.
 - **Other** : Protective helmet. Do not wear leather soled shoes.
- 8.2.3 Environmental exposure controls** : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

- **Physical state** : Oily liquid.
- **Colour** : Max. L 3.0 (ISO 2049)
- **Odour** : Light odour of petroleum.
- **Flash Point** : >230 °C
- **Density @ 15 °C** : 880 - 894 kg/m³

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SECTION 9: Physical and chemical properties (continued)

- Solubility in water : Insoluble.
- Viscosity @ 40 °C : 92 - 115 cSt
- Viscosity @ 100 °C : 10.0 - 11.0 cSt
- Pour Point : -9 °C max.
- 9.2 Other information: : See Product Data Sheet for detailed information.

SECTION 10: Stability and reactivity

- 10.1 Reactivity : No data available.
- 10.2 Chemical stability : Stable under normal conditions.
- 10.3 Possibility of hazardous reactions : None under normal conditions.
- 10.4 Conditions to avoid : Extremely high or low temperatures.
- 10.5 Incompatible materials : Strong oxidizing agents.
- 10.6 Hazardous decomposition products : None under normal conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

- LD50 oral (rat) : > 2000 mg/kg
- Irritation : Not expected to be irritant.
- Corrosivity : No adverse health effects were noted.
- Sensitisation : No sensitization effects known.
- Repeated dose toxicity : Not applicable.
- Carcinogenicity : This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
- Mutagenicity : Not expected to be mutagenetic.
- Toxicity for reproduction : Not expected to be toxic.

11.2 Information on likely routes of exposure:

- After ingestion : Ingestion may cause nausea, vomiting and diarrhoea.
- After inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- After skincontact : Repeated or prolonged skin contact may cause irritation.
- After eyecontact : Slight eye irritant upon direct contact.

11.3 Symptoms related to the physical, chemical and toxicological characteristics : No adverse symptoms/effects were noted.

11.4 Delayed and immediate effects as well as chronic effects from short and long-term exposure : Prolonged or repeated skin contact with the material will remove natural oils and could lead to a dermatitis.

11.5 Other toxicological information : No data available.

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SECTION 12: Ecological information

- 12.1 Toxicity** : No specific ecotoxicity data on this product available.
- 12.2 Persistence and degradability** : No data available.
- 12.3 Bioaccumulative potential** : Not determined.
- 12.4 Mobility in soil** : It is to be expected small mobility in soil. Some or a few components may get into the soil and may cause pollution of ground water. Product spreads on the water surface.
- 12.5 Results of PBT and vPvB assessment** : Not applicable.
- 12.6 Other adverse effects** : May contaminate water supplies.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods** : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Recover waste liquids for recycling/re-use. See Directive 2001/118/EC
- 13.2 Waste Code European Waste List** : 13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils.
15 01 10 - packaging containing residues of or contaminated by dangerous substances.

SECTION 14: Transport information

Not regulated.

SECTION 15: Regulatory information

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

National regulations:

- **Germany** : Water Hazard Class: 1 - slightly hazardous to water
- **Netherlands** : Water pollution effect indication {11}: Slightly harmful to aquatic organisms.
Abatement effort: B

International Regulations:

- **European Inventory of Existing Commercial Chemical Substances (EINECS)** : All components listed.
- 15.2 Chemical safety assessment** : Not determined.

SECTION 16: Other information

- 16.1 Revision Indicators** : Revision according to Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.
- 16.2 Abbreviations and acronyms** : ACGIH = American Conference of Industrial Hygienists
CLP = Classification and Labelling of Substances and Preparations
EC = European Commission. EN = European Norm
IARC = International Agency for Research on Cancer
IP = Institute of Petroleum. ISO = International Organization for Standardization
NLGI = National Lubricating Grease Institute
PCA = Polycyclic Aromatics

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SECTION 16: Other information (continued)

SAE = Society of Automotive Engineers
TLV = Threshold Limit Value. TWA = Time Weighted Average
VG = Viscosity Grade

16.3 Key literature references and sources for data

: Concawe Report 01/53, Concawe Report 01/54, Concawe Report 05/87.
Regulations (EC) No 1907/2006, 1272/2008 & 453/2010 of the European Parliament and of the Council.

16.5 Training advice

: See information supplied by the manufacturer.

The contents and format of this SDS are in accordance with COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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