

**Material safety data sheet according to directive 91/155/EEC**

Company: Puralube GmbH  
Product: **PUR – Base Oils**

Date prepared: 09/02/2001  
Date revised: 04/08/2006

Version: **02**

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## **pur - Base Oils**

### **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Product details:**

Substance or preparation trade name: **PUR – Base Oils**  
Reference number: no data

**Company/undertaking**

Name & address: Puralube GmbH  
Hauptstraße 30  
Gebäude 37  
06729 Tröglitz

Telephone: +49 34 41 / 84 22 - 14  
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**Emergency advice**

Dept.: Plant Manager  
Contact: Dr. Heinritz  
Telephone: +49 34 41 / 84 22 - 15

### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical characterisation:**

Description: highly refined base oil resulting from mineral oil hydrocarbon hydrogenation

### **3. HAZARDS IDENTIFICATION**

### **4. FIRST AID MEASURES**

**Inhalation:**

In case of accident by inhalation, remove casualty to fresh air, seek medical advice

**Skin contact:**

Remove contaminated clothing.  
Cleanse affected areas thoroughly by washing with soap and water  
Clean contaminated clothing before re-use.

**Eye contact:**

Flush eyes immediately with plenty of water, seek medical advice.

**Ingestion:**

If swallowed, do not induce vomiting.  
Seek medical advice.

### **5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:**

Foam, dry powder, carbon dioxide, sand or earth

**Unsuitable extinguishing media:**

Full water jet

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**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:**formation of oil vapours, smoke, carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>)**Required special protective equipment:**

for fire fighters, use of breathing apparatus with independent air supply

**Additional information:**

Catch separately contaminated fire-fighting water (in the event water is used); shall not run into canalisation.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions:**Remove all sources of ignition  
particular risk of skidding due to spill.**Environmental precautions:**Prevent spilled material from entering canalisation or aquatic environment  
dike spilled material using sand;  
take up with absorbent material smaller amounts of spilled material**Methods for cleaning:**If possible, skim off spill or absorb into an appropriate absorbent material.  
Dig out contaminated soil and dispose according to regulation (waste act).**Additional information:**

Notify competent authorities in case of spilled material has entered into sewers, aquatic environment or deeper soil layers; dispose used absorbent material etc. according to regulation (waste act).

**7. HANDLING AND STORAGE****Advice on safe handling:**Do not eat or drink while handling the product;  
avoid oil nebulisation, material spilling and local overheating;  
keep away from sources of ignition.**Fire/explosion precaution measures:**

hot product develops inflammable vapours.

**Requirements for storage rooms and vessels:**Store this material in well-ventilated areas  
avoid direct exposure to heat  
use only hydrocarbon compatible containers;  
do not store this material at temperatures above 80°C**Advice on storage compatibility:**

Do not store together with fire promoting or self-igniting materials

**Further information on storage conditions:****Storage stability:**Unlimited product storage time if storage temperatures and  
storing room conditions (dry) are adhered to.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering controls:**no data  
pls. see paragraph 7.**Ingredients with occupational exposure limits to be monitored:**

none

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**Respiratory protection:**

no particular respiratory protection required in well-ventilated areas  
 use respiratory protection for tank cleaning

**Hand protection:**

Gloves (oil-resistant)

**Eye protection:**

Safety goggles

**Skin protection:**

Long-sleeved protective clothing

**General protective measures:**

provide for good ventilation;  
 avoid any spilling

**Hygiene measures:**

Avoid contact with skin;  
 remove and make clean contaminated clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**

Physical form:	liquid
Colour – ASTM D 1500/DIN ISO 2049	L 0.5 – 1.0
Odour:	characteristic lubricating oil

**Important health, safety and environmental information:**

Test method:	
Flash point – ASTM D 92/ 180 – 220 °C	DIN ISO 2592:
Lower explosion limit (LEL %):	approx. 0.6 % with strong nebulisation
Upper explosion limit (UEL %):	approx. 6.5 % with strong nebulisation
Vapour pressure at 20°C:	< 0.1 hPa
Density at 15°C – ASTM D 1298/ DIN 51 757:	850 – 860 kg/m <sup>3</sup>
Neutralisation value –ASTM D 974/ DIN 51 588:	< 0.02 mg KOH/g
Viscosity at 40°C – ASTM D 445/ DIN 51 562:	13.0 – 65.0 cSt

**10. STABILITY AND REACTIVITY**

Thermal decomposition:	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Hazardous reactions:	reaction with strong oxidising agents
Hazardous decomposition products:	none known hazardous decomposition products

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**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity:	LD 50: > 5000 mg/kg (rat)
Acute dermal toxicity:	LD 50: > 3000 mg/kg (rabbit)
Irritability skin:	may cause skin irritation after prolonged exposure
Irritability eye:	product may cause eye irritation if eyes are not flushed immediately after contact
Sensitisation:	non-sensitising
Experiences from practice:	frequent contact may cause skin and eye irritation, particularly if dried after contact.

**12. ECOLOGICAL INFORMATION**

**Data on elimination (persistence and degradability):**

Physico-chemical eliminability:	The product is hardly soluble in water. It can be eliminated from the water by abiotic processes, e.g. mechanical separation.
Biological eliminability:	The product is not readily biodegradable
General information:	Do not discharge product unmonitored into the environment.

**13. DISPOSAL CONSIDERATIONS**

<b>Waste code No.</b> 13 02 05*	<b>Name of waste</b> mineral-oil based non-chlorinated engine, gear and lubricating oil
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**Recommendations for the product:**

The anticipated waste code No. is considered being a recommendation. If necessary, final assignment is to be made in coordination with the competent authority. The disposal information makes reference to this product and its residues resulting from the intended use. However, individual assessment is necessary if mixed with other materials or preparations.

**Recommendations for packaging:**

Contaminated packaging should be emptied as far as possible. They may be taken for reuse after appropriate cleansing by a professional reconditioner.

**14. TRANSPORT INFORMATION**

**Overland transportation (ADR/RID):**

No hazardous material as defined by the transport regulations.

**Air transportation (ICAO/IATA):**

No hazardous material as defined by the transport regulations

**15. REGULATORY INFORMATION**

**Remarks for classification:**

The product does not require a hazard warning label in accordance with EC directives/hazard classification code.

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**16. OTHER INFORMATION**

The information presented in this Material safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. The Material Safety Data Sheet describes the product with regard to its safety requirements. The information provided above represents no warranty of properties.