

Product name : HP2 OIL

VERSION N° 0 DATE : 14th APRIL 2008

1. COMPANY AND PRODUCT IDENTIFICATION

PRODUCT NAME : **HP2 OIL**

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1. 2 INTENDED USE

Hydraulic fluid

2. HAZARDS IDENTIFICATION

The product is a hydrocarbon with low viscosity . It can present an aspiration hazard, if accidentally ingested, causing lung damage.

It is of low oral and dermal toxicity and under normal conditions of use should present no significant health hazards. Excessive exposure may result in eye, skin, or respiratory irritation . High-pressure injection under skin may cause serious damage .Handling precautions should be strictly observed

Note :This material should not be used for any other purpose than the intended use in Section 1 without expert advice.

3. COMPOSITION/INFORMATION ON INGREDIENTS

DESCRIPTION	CAS N°	EINECS N°	% max	SYMBOL	R- PHRASE
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Mix of synthetic base oils antioxidation additive			99	Xn	R65
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HAZARDOUS INGREDIENT :

R65. Harmful: may cause lung damage if swallowed

4. FIRST AID MEASURES

INHALATION :

At ambient/normal handling temperatures, inhalation of vapours is normally not a problem. If overexposed to oil mist, remove from further exposure.

Administer artificial respiration if breathing is irregular or has stopped.

Get prompt medical attention

SKIN CONTACT :

Wash thoroughly with plenty of water, using soap if available.

Remove contaminated clothing.

If irritation persists, obtain medical advice.

EYE CONTACT :

Rinse immediately with plenty of water until irritation subsides.

If irritation persists, obtain medical advice.

SWALLOWING

Do not induce vomiting since this may cause an aspiration hazard in the trachea .GET MEDICAL ATTENTION IMMEDIATELY.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA :

Foam, dry chemical powder, carbon dioxide.

FIRE AND EXPLOSION HAZARDS :

Combustible material, low hazard. The product can form flammable mixtures or can burn only on heating above the flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard.

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5. FIRE-FIGHTING MEASURES

SPECIAL FIRE-FIGHTING PROCEDURES :

Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in fire fighting.

Cut off "fuel" ; depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire.

PROTECTIVE EQUIPMENT : Fire fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA) . Use water spray to cool fire exposed surfaces and to protect personnel .

HAZARDOUS COMBUSTION PRODUCTS :

Smoke and carbon monoxide, aldehydes, may be formed in the event of incomplete combustion.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Use gloves and protective clothing .

LAND SPILL :

Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water courses or low lying areas ; advise the relevant authorities if it has, or if it contaminates soil /vegetation. Take measures to minimise the effects on ground water.

Recover by skimming or pumping using explosion-proof equipment, or contain spilled liquid with booms, sand, or other suitable absorbent and remove mechanically into containers.

Consult an expert on disposal of recovered material and ensure to local disposal regulations .

WATER SPILL :

Confine the spill immediately with booms. Warn other shipping. Notify port and other relevant authorities.

Remove from the surface by skimming or with suitable absorbents. Disperse the residue in unconfined waters, if permitted by local authorities and environmental agencies.

7. HANDLING AND STORAGE

MATERIALS AND COATINGS SUITABLE : Carbon steel ,stainless steel ,polyethylene , teflon , polypropylene
Compatibility with plastic materials can vary ; we therefore recommend that compatibility is tested prior to use .

LOAD/UNLOAD TEMPERATURE : Ambient
STORAGE TEMPERATURE : Ambient

SPECIAL PRECAUTIONS :

Keep containers closed when not in use .Prevent small spills and leakages to avoid slip hazard. .Do not eat or drink while working

ADDITIONAL WARNINGS

Container remains hazardous when empty . Continue to observe all precautions . Do not pressurise , cut , heat or weld braze , solder, drill , grind or expose such containers to heat ,flame ,sparks ,static electricity or other sources of ignition .

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT :

5 mg/m3 for oil mists (TWA, 8h - workday) recommended based upon the ACGIH TLV –TWA

10 mg/m3 ACGIH – STEL

PERSONAL PROTECTION

In open systems where contact is likely, wear safety goggles, chemical-resistant overalls, and chemically impervious gloves.

Where only incidental contact is likely , wear safety glasses with side shields. No other special precautions are necessary provided skin/eye contact is avoided.(CEN standard EN 420, 374)

When concentrations in air may exceed the occupational exposure limit and where engineering, work practices, or other means of exposure reduction are not adequate, approved respirators may be required (CEN EN 136,140,145 for gas mask and EN 149,143 for filters)

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9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE :

Clear amber liquid

DENSITY : at 15 DegC ASTM D 1298 Kg/L 0,798 (approx)

VISCOSITY : at 40 DegC ASTM D 445 mm2/sec 5

VISCOSITY : at - 40 DegC ASTM D 445 mm2/sec < 300

SOLUBILITY IN WATER : 20 DegC : Negligible

pH : Not applicable.

FLASH POINT ASTM D 92 : DegC 152

POUR POINT ASTM D 97 : DegC < - 60

EXTRACT DMSO IP 346 : < 3%

10. STABILITY AND REACTIVITYSTABILITY (THERMAL, LIGHT, ETC) : Material is stable under normal conditions.

CONDITIONS TO AVOID :

Keep away from heat sources, open flames and other sources of ignition.

INCOMPATIBLE MATERIALS :

Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS :

Product does not decompose at ambient temperature.
-----**11. TOXICOLOGICAL INFORMATION**

EFFECTS OF OVER EXPOSURE :

INHALATION :

Negligible hazard at ambient/normal handling temperatures.

In high concentration, or at elevated temperatures, vapour or mist is irritating to eyes and respiratory tract.

SKIN CONTACT :

Minimally toxic .Based on test data for structurally similar materials

Negligible irritation to skin at ambient temperature . Based on test data for structurally similar materials

EYE CONTACT :

Slightly irritating, but does not injure eye tissue.

INGESTION :

Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema .

ACUTE TOXICITY

Oral LD50 (rat) : > 5000 mg/Kg

Assessment of mutagenicity : animal testing did not show mutagenic effects

carcinogenicity : did not show carcinogenic effects in animal experiments

toxicity to reproduction : not reprotoxic

Not sensitising in test animals.

CHRONIC :

Base oil components of this product have shown no carcinogenic activity in experimental animal (long-term repeated skin painting tests).Representative material passes IP 346, modified Ames test, and/or other screening tests.

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12. ECOLOGICAL INFORMATION

The information given is based on data available for the material , the components of the material , and similar materials.
ECOTOXICITY : Long term adverse effects to aquatic organisms are possible if continuous exposure is maintained .
MOBILITY : Low solubility and floats and is expected to migrate from water to the land . Expected to partition to sediment and wastewater solids .
PERSISTENCE AND DEGRADABILITY
BIODEGRADATION : Expected to be inherently biodegradable
BIOACCUMULATION POTENTIAL
Has the potential to bioaccumulate , however metabolism or physical properties may reduce the bioconcentration or limit bioavailability

13. DISPOSAL CONSIDERATIONS

EMPTY CONTAINER WARNING : Empty containers may contain residue and can be dangerous . Do not attempt to refill or clean containers without proper instructions . Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed . Empty containers should be taken for recycling , recovery , or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations . Do not pressurise , cut, weld, braze, solder, drill , grind , or expose such containers to heat, flame, sparks, static electricity , or other sources of ignition . They may explode and cause injury or death .
European Waste Code : 13 02 05
NOTE : These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use . Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code .
Collect and dispose of waste product at an authorised disposal facility, in conformance with national and local regulations and in accordance with EEC Directives on the disposal of waste oil.

14. TRANSPORT INFORMATION

USUAL SHIPPING CONTAINERS :
Rail cars, tank trucks, drums.
ROAD AND RAIL TRANSPORT (ADR/ RID)
It is not dangerous for conveyance
SEA TRANSPORT (IMO/IMDG)
It is not dangerous for conveyance
AIR TRANSPORT (ICAO/IATA)
It is not dangerous for conveyance

TRANSPORT TEMPERATURE: Ambient to max. 40 DegC

15. REGULATORY INFORMATION

EEC DANGEROUS SUBSTANCES/PREPARATIONS CLASSIFICATION :
GOVERNING DIRECTIVE : Dangerous Substances Directive 67/548 EC , as modified .
CLASSIFICATION /SYMBOL : HARMFUL /Xn

NATURE OF SPECIAL RISK
R 65 Harmful : may cause lung damage if swallowed
SAFETY ADVICE
S62 If swallowed , do not induce vomiting : seek medical advice immediately and show this container or label .

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16 OTHER INFORMATION

The information contained here in is based on our state of knowledge at the above-specified date . It refers only to the product indicated and constitutes no guarantee of particular quality . It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended .

This MSDS cancels and replaces any preceding release .

Library of Risk phrases listed in this document :

R 65 Harmful : may cause lung damage if swallowed

REVISION SUMMARY

Since , this SDS has been revised in sections :

In those sections , vertical bars will indicate in the margin the text that has been changed . If a section is listed , but does not show a vertical bar , it indicates that text has been removed .

No revision information is available