

US Safety Data Sheet

GEAR OIL HYPOID SAE 80W/90



Date of issue / Reference

03/10/2006 os

Replaces version of

02/10/2004 os

Date of printing

02/12/2007 **Sheet No. 537**

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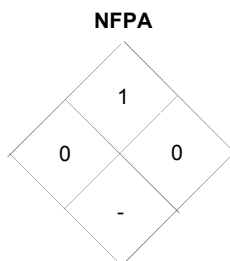
Company

BUCHER AG LANGENTHAL, MOTOREX-Schmiertechnik, CH-4901 Langenthal, Switzerland

1 Commercial product name and supplier

1.1 Commercial product name / Designation

GEAR OIL HYPOID SAE 80W/90



HMIS	
H	1
F	1
R	0
C	B

1.2 Application / Use

Gear Oil

1.3 Producer

BUCHER AG LANGENTHAL, MOTOREX-Schmiertechnik, CH-4901 Langenthal, Schweiz, T. +41 (0)62 919 7575

1.4 Supplier

MOTOREX USA, 900 Mendelssohn Ave. N, Golden Valley, MN 55427, USA, +1 763-417-1377

1.5 TOX emergency number

USA + Canada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)

1.6 Product No.

2 Composition

2.1 Chemical characterization

Mineral oil, paraffinic (CAS# 8042-47-5)
Additives

2.2 Hazardous components

Does not contain any dangerous substances according to the criteria of the EC (Council Directive 88/379/EEC).

2.3 Further information

3 Hazards identification

No known hazard.

4 First aid measures

4.1 Eye contact

Consult a physician if irritation develops.
Flush with plenty of water.

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- | | | |
|-----|--------------|--|
| 4.2 | Skin contact | Remove contaminated clothing immediately.
Remove residues with soap and water. |
| 4.3 | Ingestion | Consult a physician who will decide on need and method of emptying the stomach.
Do not induce vomiting. Do not take in resorption stimulating agents. |
| 4.4 | Inhalation | Take into fresh air.
If respiratory irritation is experienced, call a physician. |

4.5 Further information

5 Fire-fighting measures

- | | | |
|-----|------------------------------|--|
| 5.1 | Suitable extinguishing media | Water fog, carbon dioxide, foam, dry chemicals. |
| 5.2 | Extinguishing media to avoid | None known. |
| 5.3 | Flash point | Test method:
DIN EN ISO 2592 |
| 5.4 | Ignition temperature | |
| 5.5 | Explosion limits | Lower:
Upper:
not explosive |
| 5.6 | Further information | In case of fire carbon, sulphur and nitrogen oxides can be formed. |

6 Accidental release measures

Do not wash into sewers or into any body of water.
Spills should be contained by, and covered with suitable absorbent material and removed for disposal.

7 Handling and storage

- | | | |
|-----|--------------------------------|--|
| 7.1 | Handling | Used oils (motor oils, gear oils, industrial oils) contain components causing skin cancer. Therefore, avoid skin contact by wearing protecting gloves. Carefully clean soiled parts of the skin with soap. |
| 7.2 | Industrial hygiene | Follow safety precautions for handling of mineral oils. |
| 7.3 | Storage | Follow regulations for storage of water hazarding products. |
| 7.4 | Place of storage | |
| 7.5 | Fire- and explosion-protection | Keep away from sources of ignition.
Do not heat above flash point. |

8 Exposure controls / Personal protection

- | | | |
|-----|-----------------------------|-----------------------------------|
| 8.1 | Technical measures | No specific requirements. |
| 8.2 | Control of threshold limits | None established for the mixture. |

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8.3 Personal protective equipment

- 8.3.1 Respiratory protection None required.
- 8.3.2 Hand protection Use impervious gloves when prolonged or frequently repeated contact could occur.
- 8.3.3 Eye protection If contact with the product is possible, an eye protector is recommended.
- 8.3.4 Other None.

9 Physical and chemical properties

- 9.1 Appearance liquid
- 9.2 Colour yellow to brown
- 9.3 Odour characteristic
- 9.4 Change of physical state Test method:
- 9.5 Density 0.89 g/cm³ (20°C) ASTM D 4052
- 9.6 Vapour pressure
- 9.7 Viscosity 135 mm²/s (40°C) DIN 51562-1
- 9.8 Solubility
in water immiscible
- 9.9 pH not applicable
- 9.10 Further information

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10 Stability and reactivity

- 10.1 Thermal decomposition Is stable under normal storage conditions.
- 10.2 Hazardous decomposition products None under normal conditions of storage and use.
- 10.3 Hazardous reactions No hazards known.
- 10.4 Further information

11 Toxicological information

- 11.1 Acute toxicity The estimated oral LD50 for rats is >2000 mg/kg.
No adverse effects anticipated by this route of exposure incidental to proper handling.
- 11.2 Subacute / Chronic toxicity
- 11.3 Further information

12 Ecological information

Water Hazard Class (Germany): Class 2 (self assessment): hazardous for water.

13 Disposal considerations

Comply with local and national regulations.

- 13.1 EU/CH waste key 13 02 05 non chlorinated machine, gear and lubricating oils based on mineral oil

14 Transport information

- 14.1 Transport at land
- | | |
|----------------------|---------------|
| ADR | RID |
| UN Number | Kemler Number |
| Packing Group | |
| Proper shipping name | |
- 14.2 Transport at sea
- | | |
|----------------------|------|
| ADNR | IMDG |
| UN Number | |
| EMS | MFAG |
| Packing Group | |
| Proper shipping name | |

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14.3 Air transport ICAO / IATA-DGR
UN Number
Packing Group
Proper shipping name

Passenger airplane Packing Instructions

max.

Cargo Airplane Packing Instructions

max.

14.4 Further information Product is not classified for any mode of transportation.

15 Regulatory information

This product does not require classification according to the criteria of the Commission of the European Communities (Council Directive 67/548/EEC).

15.1 National regulations

15.2 NFPA Storage

Class IIIB

15.3 Further information

16 Other information

No other information.

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.