

EU Safety Data Sheet

LEGEND 4T SAE 20W/50



Date of issue / Reference	10.11.2008	mku		
Replaces version of	07.03.2006	os		
Date of printing	04.03.2009	Sheet No. 1073	Version 1	Page 1 of 5
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Company	BUCHER AG LANGENTHAL, MOTOREX-Schmiertechnik, CH-4901 Langenthal, Switzerland
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1 Commercial product name and supplier

- | | | |
|-----|---------------------------------------|---|
| 1.1 | Commercial product name / Designation | LEGEND 4T SAE 20W/50 |
| 1.2 | Application / Use | Engine Oil |
| 1.3 | Producer | BUCHER AG LANGENTHAL, MOTOREX-Schmiertechnik, CH-4901 Langenthal, Schweiz, T. +41 (0)62 919 7575
Auskunft zum Sicherheitsdatenblatt: msds@motorex.com
Importeur EU: MOTOREX Deutschland AG, Mathysstrasse 20, D-76133 Karlsruhe |
| | Supplier | BUCHER AG LANGENTHAL, MOTOREX-Schmiertechnik, CH-4901 Langenthal, Schweiz, T. +41 (0)62 919 7575 |
| 1.4 | TOX emergency number
Public | Toxicological Information Centre, CH-8028 Zurich, E-mail: info@toxi.ch, T. +41 (0)44 251 51 51 |
| 1.5 | Product No. | |

2 Hazards identification

No known hazard.

3 Composition

- | | | |
|-----|---------------------------|---|
| 3.1 | Chemical characterization | Mineral oil, paraffinic Additives |
| 3.2 | Hazardous components | Does not contain any dangerous substances according to the criteria of the EC (Council Directive 88/379/EEC).

CAS No. 68649-42-3 Zinc dialkyl dithiophosphate
EINECS/ELINCS No.: 272-028-3
Xi: Irritant. N: Dangerous for the environment. R41: Risk of serious damage to eyes.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 3.3 | Further information | |

4 First aid measures

- | | | |
|-----|--------------|---|
| 4.1 | Eye contact | Flush with plenty of water.
Consult a physician if irritation develops. |
| 4.2 | Skin contact | Remove contaminated clothing immediately.
Remove residues with soap and water. |

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4.3 Ingestion Do not induce vomiting. Do not take in resorption stimulating agents.
Consult a physician who will decide on need and method of emptying the stomach.

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 Further information In case of fire carbon, sulphur and phosphorus oxides can be formed.

6 Accidental release measures

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

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 Do not heat above flash point.

8 Exposure controls / Personal protection

8.1 Exposure controls No specific requirements.

8.2 Exposure limit values None established for the mixture.

8.3 Occupational exposure controls

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.

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8.3.4 Other None.

8.4 Environmental exposure controls

9 Physical and chemical properties

9.1 Appearance	liquid	
9.2 Colour	brown	
9.3 Odour	characteristic	
9.4 Change of physical state		Test method:
9.5 Density	0.891 g/cm ³ (20°C)	ASTM D 4052
9.6 Vapour pressure	< 0.1 hPa (20°C)	
9.7 Viscosity	167.07 mm ² /s (40°C)	DIN 51562-1
9.8 Solubility in water	immiscible	
9.9 pH	not applicable	
9.10 Flash point	> 200 °C (1013 mbar)	DIN EN ISO 2592
9.11 Ignition temperature		
9.12 Explosion limits	Lower: Upper: not explosive	
9.13 Further information Part. coeff. n-octanol/water Evaporat. rate		

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 Conditions / materials to avoid	No hazards known.
10.4 Further information	

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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

- 12.1 Ecotoxicity
- 12.2 Mobility
- 12.3 Persistence and degradability
- 12.4 Bioaccumulative potential
- 12.5 Further 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 | |
| Marine pollutant | |

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14.3	Air transport	ICAO / IATA-DGR UN Number Proper shipping name Subsidiary Risk Labels Packing Group 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 EC and the "Gefahrstoffverordnung".

15.1 UN number

15.2 National regulations

15.3 EINECS/ELINCS number

15.4 Hazard symbols

15.5 Hazard designation

15.6 Risk phrases

15.7 Safety phrases

15.8 MAK value

15.9 BVD classification (CH) F4 1 Y2

15.10 VbF (D)

15.11 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.