

EU Safety Data Sheet

MOTOREX FORMULA 4T SAE
10W/40



Date of issue / Reference	02.03.2009	mku		
Replaces version of	04.05.2007	mku		
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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 | MOTOREX FORMULA 4T SAE 10W/40 |
| 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 | MOTOREX AG LANGENTHAL, Schmiertechnik, CH-4901 Langenthal, Schweiz, T. +41 (0)62 919 74 74 |
| 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 | Paraffin oils
Additives |
| 3.2 | Hazardous components | Does not contain any dangerous substances according to the criteria of the EC (Council Directive 88/379/EEC).

ZnDTP
Xi: Irritant. N: Dangerous for the environment. R38: Irritating to skin. 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. |
| 4.3 | Ingestion | Consult a physician who will decide on need and method of |

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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

Do not use direct water stream.

5.3 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

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

Good general ventilation should be sufficient for most conditions.

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	yellow to brown	
9.3 Odour	characteristic	
9.4 Change of physical state		Test method:
9.5 Density	0.857 g/cm ³ (20°C)	ASTM D 4052
9.6 Vapour pressure		
9.7 Viscosity	93.1 mm ² /s (40°C) 14.365 mm ² /s (100°C)	DIN 51562-1
9.8 Solubility in water	immiscible	
9.9 pH	not applicable	
9.10 Flash point	> 230 °C (1013 mbar)	DIN EN ISO 2592
9.11 Ignition temperature		
9.12 Explosion limits	Lower: Upper:	
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 None.

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

- 13.1 EU/CH waste key Comply with local and national regulations.
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

Contains ZnDTP.

15.6 Risk phrases

15.7 Safety phrases

15.8 MAK value

15.9 BVD classification (CH)

F4 I 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.