

Date of Printing: 03.08.2001

Date of Revision: 03.08.2001

MICROLUBE LB-4000

**1. Name of Substance, Preparation and Company**

**Trade name** MICROLUBE LB4000 805-006

**Producer/Supplier** ADVANCED CARBIDE TOOLING  
SKETCHLEY MEADOWS BUSINESS PRK  
HINCKLEY LEICS LE10 3EZ  
phone: 01455 234000 fax: 01455 234022

**Source of information**

**Emergency inquiries**

**2. Composition, Data of Components****Chemical characterization**

Di- and Triester of natural refined fatty acids

**Dangerous components**

<u>CAS-No.</u>	<u>Designation</u>	<u>[weight-%]</u>	<u>Classification</u>
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68583-51-7

65381-09-1

**Further information**

According to these data MICRO-LUBE LB-4000 does not contain any hazardous substances regarding EEC regulations

**3. Hazards****Special hazards for humans and the environment**

MICRO-LUBE LB-4000 is not dangerous or detrimental to health. Particular danger for humans and environment are not expected. Still the same caution like with the use of other chemicals is required.

**4. First Aid****General information**

none

**After inhalation**

No emergency care anticipated under normal conditions

**After skin contact**

Wash with soap and water

**After eye contact**

Flush well with water

**After ingestion**

Do not induce vomiting. Contact a physician. If vomiting occurs keep head below hips to prevent aspiration of liquid into lungs.

## 5. Fire Fighting Measures

### Appropriate fire-extinguishing media

CO<sub>2</sub>  
Dry chemicals  
Foam

### Inappropriate fire-extinguishing media for safety reasons

water  
alcohol foam

### Special hazards caused by the substance itself, by its combustion products or by generated gases

None

### Special safety equipment

Fire fighters should wear self-contained breathing apparatus in confined areas.

## 6. Measures in case of unintentional release

### Individual safety measures

### Measures for the protection of the environment

### Methods for cleaning/absorption

Mop up or use absorbent material, wash area, discard in suitable containers.

## 7. Handling and Storage

### Information for safe handling

No dangerous reactions expected, if stored and used properly

### Information for fire and explosion protection

### Requirements for storage and containers

Keep oil cans closed

### Storage together with other goods

### Further information as to storage conditions

Storage above - 10°C

### Storage class

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## 8. Exposure Limiting and Individual Safety Measures

### General protective and hygienic measures

The usual working hygiene is necessary when using chemicals

### Respiratory protection

None required at normal handling temperatures

### Hand protection

Not required

### Eye protection

Safety glasses with side shields

### Body protection

No protective clothing or equipment required under normal use.

### Ventilation

Local exhaust is recommended for confined areas. General mechanical ventilation is adequate for normal use.

### Further Information

At elevated temperatures greater than 200°C eye, nose and throat irritation may occur

## 9. Physical and Chemical Properties

### State of matter

viscous fluid

### Colour

blue

### Odour

mild odour

### Safety Data

	Value	Temperature	At	Method	Remarks
<b>Pour point</b>	-20° C				
<b>Boiling point</b>	> 204°C				
<b>Flash point</b>	214° C			PMCC	
<b>Self-inflammability</b>					
<b>Vapour pressure</b>	< 1,33 mbar	20°C			
<b>Density</b>	0,92 g/cm <sup>3</sup>	20 C			
<b>Solubility in water</b>					insoluble
<b>Viscosity</b>	19 cSt	20°C			
	12 cSt	40°C			

## 10. Stability and Reactive Behaviour

### Stability

Chemically stable

### Conditions to be avoided

None

### Incompatibility (materials to avoid)

Strong oxidizing agents

### Hazardous products of decomposition

CO<sub>2</sub>

### Hazardous polymerization

Will not occur

**11. Toxicological Data****LD/C<sub>50</sub> values**

Type	Value/range of values	Species	Method
oral	> 5 g/kg	rat	OECD 401
dermal	non-toxic		

Primary effects of irritation	Effect	Species	Method
on the skin	non-irritating		

**Toxicological Tests (further information)**

ACCU-LUBE LB-4000 does not contain any carcinogenic substances

**12. Ecological Data****Elimination (persistence and degradability)**

Analytical method	Decrease of CH <sub>2</sub>	Method	Remarks
Degree of elimination	95,6 %	CEC L-33-T-82	good biological decomposition of MICRO-LUBE LB-4000

**Ecotoxic effects****Aquatic toxicity**

Type of test	Effective concentration	Method	Remarks
Acute toxicity (fish-test)	> 10 g Prod./l	OECD 203 (LC <sub>50</sub> )	In the highest concentration (10g/l) MICRO-LUBE LB-4000 is non-toxic for fish

**Behaviour in waste water treatment plants**

Type of test	Effective concentration	Method	Remarks
Acute bacterial toxicity	EC50 > 100 mg Prod./l	deducted from comparable substances	estimated by comparison with structurally similar substances

**13. Waste Disposal**

Waste code no.	Designation	Accountability
EAK 120 107	derivatives of fatty acids	yes

**Recommendation for the product**

Remove to a waste disposal facility operating in compliance with local regulations.

**Recommended cleaning material**

Alkaline cleaners

## 14. Transport Directions

### Further information for transport

No hazardous goods according to the following regulations: ADR/RID, GGVS/GGVE, ADN/ADNR, IMDG/GGvSee, ICAO/IATA-DGR.

## 15. Legal Regulations

### Identification information

### Risk phrases

None

### Safety phrases

None

### Special identification of specific preparations

According to these data MICRO-LUBE LB-4000 is not hazardous regarding hazardous-substances-regulations including third amendment of 15.09.1991 Annex I Hazardous-Substances-Regulations

### National regulations

### Water pollution hazard class

not hazardous – according to VwVwS of 17.05.1999

## 16. Further Information

These statements are based on existing data and present knowledge.  
We do not take guarantee for the completeness of these statements.