

# Safety data sheet

Page: 1/7

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 10.08.2004

Product: **Kerofluid\* MIL AL 41**

Version: 1.0

(30236746/SDS\_GEN\_GB/EN)

Date of print 29.06.2005

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## 1. Substance/preparation and company identification

### **Kerofluid\* MIL AL 41**

Use: chemical for the petroleum industry

Company:BASF Aktiengesellschaft - D-67056 Ludwigshafen  
GermanyContact address:

BASF PLC

PO Box 4, Earl Road,  
Cheadle Hulme, Cheshire,  
SK8 6QG

Telephone: 0161 485 6222

E-mail address: productsafety@nordic.basf.org

Emergency information:

Falck Euro Service

Tel: 0045 79 42 43 33

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## 2. Composition/information on ingredients

Chemical nature

2-(2-methoxyethoxy)ethanol, stabilizer

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## 3. Hazard identification

Possible risk of harm to the unborn child.

Category 3: Substances which cause concern for humans owing to possible developmental toxic effects

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#### 4. First-aid measures

General advice:

Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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#### 5. Fire-fighting measures

Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

Specific hazards:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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#### 6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:  
For large amounts: Pump off product.  
For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

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## 7. Handling and storage

### Handling

Prevent contact with air/oxygen (formation of peroxide). Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

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## 8. Exposure controls and personal protection

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials short-term contact and/or splashes (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374)

butyl rubber (butyl) - 0.7 mm coating thickness

Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

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General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

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## 9. Physical and chemical properties

Form:	liquid	
Colour:	colourless	
Odour:	almost odourless	
pH value:	4 - 7 (200 g/l, 20 °C)	
boiling temperature:	192 - 195 °C (1,013 mbar)	(DIN 53171)
Flash point:	91 °C	(DIN 51758)
Lower explosion limit:	1.6 %(V)	
Upper explosion limit:	16.1 %(V)	
Ignition temperature:	215 °C	(DIN 51794)
Vapour pressure:	0.26 mbar (20 °C)	
Density:	1.02 g/cm <sup>3</sup> (20 °C)	
Miscibility with water:	(20 °C) miscible in all proportions	
Solubility (qualitative) solvent(s):	organic solvents miscible	
Partitioning coefficient n-octanol/water (log Pow):	0.90	
Viscosity, dynamic:	3.89 mPa.s (20 °C)	

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## 10. Stability and reactivity

Hazardous reactions:

Reacts with light metals, with evolution of hydrogen. Reacts with strong oxidizing agents.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## 11. Toxicological information

LD50/oral/rat: approx. 6,500 mg/kg

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LD50/dermal/rabbit: approx. 6,540 mg/kg

Primary skin irritation/rabbit: non-irritant (BASF-Test)

Primary irritations of the mucous membrane/rabbit: non-irritant (BASF-Test)

Additional information:

after dermal administration  
only after administration of very high doses of the substance  
teratogenic effect

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## 12. Ecological information

### Ecotoxicity

Toxicity to fish:  
Lepomis macrochirus/LC50 (96 h): 7,500 mg/l  
Literature data.

Aquatic invertebrates:  
OECD Guideline 202, part 1  
Daphnia magna/EC50 (48 h): > 500 mg/l

Aquatic plants:  
Scenedesmus subspicatus/EC50 (72 h): > 500 mg/l

Microorganisms/Effect on activated sludge:  
DIN 38412 Part 8  
Pseudomonas putida/EC50 (17 h): > 10,000 mg/l  
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

### Persistence and degradability

#### Elimination information

Test method: OECD 301F; ISO 9408; 92/69/EEC, C.4-D  
Method of analysis: DOC reduction  
Degree of elimination: > 70 %  
Evaluation: Easily eliminated from water.

Evaluation: Biodegradable.

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## 13. Disposal considerations

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

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Contaminated packaging:  
Uncontaminated packaging can be re-used.  
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## 14. Transport information

Not classified as hazardous under transport regulations ( ADR RID IMDG/GGVSee ICAO/IATA )

Hazardous good only when carried in inland waterway tanker (ADNR)

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## 15. Regulatory information

### Regulations of the European union (Labelling) / National legislation/Regulations

Hazard symbol(s)

Xn Harmful.

R-phrase(s)

R63 Possible risk of harm to the unborn child.

S-phrase(s)

S36/37 Wear suitable protective clothing and gloves.

The labelling is based on our own experience.

Hazard determinant component(s) for labelling: DIETHYLENGLYKOLMONOMETHYLETHER

### Other regulations

as in Directive 67/548/EEC

Repr. Cat. 3 - Category 3: Substances which cause concern for humans owing to possible developmental toxic effects or substances which cause concern for human fertility

This product is classified under the Chemicals (Hazard Information and Packaging) Regulations, (CHIP) (United Kingdom).

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

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## 16. Other information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

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The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.