



MK 150

Safety data sheet

Safety data sheet in accordance with EU order No. 1907/2006

MK 150

MQL oil used in minimal systems for all the alloys of good tough ability

Safety data sheet

Date of printing: 08/05/2009

Revised on: 03/02/2009

Version 1.0 E

1 Designation of the substance / preparation and company

Designation of the substance or preparation

MK 150

Part number **3226664**

Use of the substance / preparation

Preparation for industrial and commercial use

Non-water-miscible metalworking lubricant

Designation of the company

Dropsa S.p.A. – Via B. Croce, 1 Vimodrone (MI)

Tel. 02/250791 – Fax. 02/25079767

2 Possible hazards

Classification

May cause long-term adverse effects in the aquatic environment.

Additional notes on hazards for persons and the environment

No further risks known

3 Composition/statements on the constituent parts

General description of the constituent parts

Preparation of iso-paraffin hydrocarbons and synthetic esters

Hazardous components

Designation	CAS-No.	Concentration	Classification	R-phrases*
Alkanes (C9-C12), Iso-	90622-57-4	25-50 %	Xn	53-65-66

*The text of the notes on hazards (R-phrases) listed is given in section 16.

4 First-aid measures

Following inhalation

Bring the affected person into fresh air and lay him/her down quietly..

Following contact with the skin

Remove contaminated clothing immediately and wash the affected parts of the skin with soap and water

Following contact with the eyes

In the case of contact with the eyes, rinse out the eyes immediately and thoroughly with a lot of water and consult a physician.

Following swallowing

Do not induce vomiting. Wash out the mouth and drink a lot of water. Get medical attendance.

5 Fire-fighting measures

Suitable extinguishing agents

Foam, CO₂, dry extinguishing agent

Unsuitable as an extinguishing agent for safety reasons

Water jet

Particular hazards from the substance or the product itself, its combustion products or the gases arising therefrom

CO_x

Special protective equipment when fighting fires

In the case of a fire use self-contained breathing apparatus

Further statements

Conflagration residues and contaminated extinguishing water must be disposed of in accordance with the official prescriptions.

6 Measures in the case of unintended release

Precautionary measures in relation to persons

Remove sources of ignition. Avoid contact of the product with the skin and eyes. Use personal protective clothing. Take care – there is an increased danger of slipping from the product that has run out.

Environmental protection measures

Do not allow the product to get into surface bodies of water, sewer systems or the earth. Inform the responsible authorities if the product escapes into surface bodies of water, sewer systems or the ground.

Methods for cleaning up / disposal

Absorb liquid with an oil binder or universal binder and dispose of this in accordance with the regulations.

7 Handling and storage

Handling

Notes on safe handling

Avoid allowing the product to come into contact with unprotected parts of the skin; use suitable gloves if necessary (e.g. of nitrile rubber). Prevent the formation of vapours and aerosols. Ensure adequate ventilation, if necessary with the aid of local extraction systems.

Storage

Requirements in respect of storage rooms / conditions

Store protected against frost and heat. Store in closed vessels. Take precautions to prevent the building up of electrostatic charges.

Containers and filling equipment are to be stored/handled in such a way that the possibility of water and the ground being endangered if the product escapes is excluded.

Notes on storing the product with other products

Storage class 3B, flammable liquids (VCI – Association of the German Chemical Industry)

Intended forms of use

Preparation for industrial and commercial use.

Non-water-miscible coolant lubricant

Workers' compensation insurance carrier rule 143 – "Working with coolant lubricants" is to be observed.

8 Limiting and monitoring of exposure / personal protective equipment

Exposure limit values

Workplace limit values

<u>Designation of the substance</u>	<u>Workplace limit value</u>	<u>Comment</u>
-------------------------------------	------------------------------	----------------

The product does not contain relevant quantities of individual substances with workplace related limit values requiring to be monitored.

Limiting and monitoring of exposure at the workplace

Protection and hygiene measures

Keep the product away from food and beverages. Do not carry cleaning cloths that are saturated in the product in clothes. The hands should be washed before breaks and meals. Apply a skin-care cream after work to return grease to the skin. Observe the skin protection plan relating to the workplace.

Personal protective equipment

Breathing protection

This is not necessary when the ventilation is adequate.

Protection of the hands

When working with the product wear protective gloves of a suitable material (e.g. nitrile rubber, permeation time > 480 minutes) which have been tested in accordance with EN 374. Use a skin protecting cream that is insoluble in oil if gloves may not be worn. Observe the skin protection plan.



MK 150

Safety data sheet

Protection of the eyes

Wear goggles providing protection at the sides if there is a risk of squirting/splashing.

Protection of the body

Wear protective work clothing.

Limiting and monitoring in respect of the exposure of the environment

See the statements in section 6 on this.

9 Physical and Chemical properties

Appearance

Form	liquid
Colour	yellow
Odour	weakly characteristic

Important statements on protection of health and the environment as well as on safety

Basic parameters relevant for safety

pH	(g/l water, 20°C)	not applicable	
Melting range		not determined	°C
Boiling point / range		not determined	°C
Flash point		70	°C
Ignition temperature		240	°C
Explosive limits	lower upper	0,6 6,5	Vol% Vol%
Vapour pressure	(20°C)	< 1	hPa
Specific gravity	(20°C)	860	kg/m ³
Solubility in water	(20°C)	insoluble in practical terms	g/l
Distribution coefficient n-octanol/water (log Pow)		not determined	
Viscosity, kinematic	(40°C)	13	mm ² /s

10 Stability and reactivity

Conditions to be avoided

The product is stable under the conditions of use usual for the purpose for which the product is intended. Observe the statements on storage.

Substances to be avoided

Strong oxidizing agents

Hazardous decomposition products

In case of fire CO_x

11 Toxicological statements

General comments

Acute toxicity, irritation of the skin, irritation of the mucous membranes, mutagenic potential and allergization of the skin were evaluated on the basis of the data available on the components. Gaps in the data exist in part on the individual components

Practical experience

Our experience to date has shown that no harm to health is to be expected when the product is used for the purpose for which it is intended in the proper manner and when the basic rules of safety at work and industrial hygiene are observed. Splashes/squirts into the eyes and continuous contact with the skin can to be avoided.

Further statements Classification is carried out in accordance with guide-line 1999/45/EC.

12 Environment-related statements

Ecotoxicity

The product is a liquid that is a hazard for water; it should not be allowed to get into the earth, sewers or surface bodies of water.

Mobility

Not statements available

Persistence and degradability

No statements available

Bioaccumulation potential

No statements available

Other harmful effects

The product contains no organically bound halogens. It does not contribute to the AOX value.



MK 150

Safety data sheet

13 Notes on disposal

Disposal / waste (product)

Waste is to be handed over to a licensed waste disposal company in accordance with the local official regulations.

European Waste Catalogue key

12 01 10 synthetic machining oils

Packing

Empty containers completely. Hand them over to a licensed waste disposal company. Drums and containers can be reconditioned. Cleaning to be carried out by the further user.

14 Statements on transport

The product is not a hazardous material in accordance with ADR, RID, IMDG, ADN, ICAO/IATA

15 Legal prescriptions

Labelling

Hazard symbol(s) and hazard designation(s)

Not applicable

R-phrases

R 53 May cause long-term adverse effects in the aquatic environment.

S-phrases

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Other EU prescriptions

Statements relating to directive 1999/13/EU on the limiting of emissions of volatile organic compounds (VOC directive): no statements

The product contains "volatile organic compounds".

Content: 30 %

National prescriptions (Germany)

31. BImSchV

The product contains "volatile organic compounds".

Content: 30 %

German water-hazarding class

WGK 1 (a weak hazard for water, VwVwS Appendix 4)



MK 150

Safety data sheet

16 Other statements

Text of the R-phrases under section 3

R 53	May cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed
R 66	Repeated exposure may cause skin dryness or cracking

Alteration service

Sections which have been changed are marked with a *.

The statements in this safety data sheet are based on the present state of our knowledge. They are intended to describe our products in respect of the relevant safety requirements and accordingly are not intended to guarantee particular properties.