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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation

MK 200

1.2 Relevant identified uses of the substance or mixture and uses advised against Mixture for industrial use:

Non-water-miscible cooling lubricant

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier

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Departement responsible for information:

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1.4 Emergency telephone number: +49 (0) 160 824 05 88

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

Hazard pictograms

not applicable

Signal word:

not applicable

Hazard statements

not applicable

Precautionary Statements

not applicable

2.3 Other hazards

Results of PBT and vPvB assessment

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PBT: Criteria are not met vPvB: Criteria are not met

SECTION 3: Composition / infomation on ingredients

3.2 Mixtures

Mixtures contains synthetic esters, Sulfur and phosphorus additives and Antioxidants

Harzadous ingredients

<u>Designation:</u> <u>Identifier</u> <u>Concentration</u> <u>Assessment/classification*</u>

This mixture does not contain any substances presenting a health or environmental hazard within the means of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off immediately all contaminated clothing and wash it before reuse.

Following inhalation

Remove person to fresh air and keep comfortable for breathing.

Following skin contact

Wash with plenty of soap and water.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

In case of ingestion

Do NOT induce vomiting. Rinse out mouth immediately and then drink plenty of water. Get medical advice/attention. Never give anything by mouth to an unconscious person or a person with cramps.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO2), dry extinguishing powder, water mist

Unsuitable extinguishing media

full water jet

5.2 Special hazards arising from the substance or mixture

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In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO2), sulphur oxides (SOx), phosphorus oxides

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

Cool closed containers that are near the source of the fire.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Use personal protection equipment.

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow it to enter surface water, sewers or the ground. In the event of leakage into surface waters, the sewage system or underground, inform the responsible authority.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.3 Methods and material for containment and cleaning up

Wipe up liquid with absorbent material or absorb with universal binding agent and dispose of according to regulations.

6.4 Reference to other sections

none

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use personal protection equipment.

Avoid unprotected skin contact, use gloves (e.g. nitrile rubber) if necessary.

Avoid: aerosol or mist formation

Technical measures and storage conditions

Ensure adequate ventilation, if necessary by means of local exhaust ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store protected from frost and heat. Store in closed containers.

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage (Germany) Storage class 10 – 13

7.3 Specific end use(s)

Mixture for industrial use

Non-water-miscible cooling lubricant

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Germany: The DGUV rule 109-003 (formerly BGR/GUV-R 143) "Activities with cooling lubricants" must be observed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits at intended use Occupational exposure limit values AGW (DE)

AGW (DE) Designation peak limitation

The product does not contain any relevant quantities of individual substances with workplace-related limit values that require monitoring.

AGW: Occupational exposure limit (OEL)

8.2 Exposure controls

Protective and hygiene measures

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Wash hands before breaks and meals. Use moisturizing cream after work. Keep away from food and beverages. Do not carry cleaning rags soaked in the product in your clothing.

Personal protection equipment

Respiratory protection

Not required with adequate ventilation.

Hand protection

When handling the product, use protective gloves made of suitable material (e.g. nitrile rubber, permeation time >480 min) that have been tested in accordance with EN 374.

Use oil-insoluble skin protection cream if gloves are not allowed to be worn.

Observe skin protection plan.

Eye protection

Wear closely fitting protective glasses in case of splashes (DIN EN 166).

Body protection

Workwear.

Environmental exposure controls

See sections 6 and 7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid Colour yellow Odour typical рΗ

g/L Water, 20°C not applicable

Melting point/freezing point not determined Initial boiling point and boiling range not determined

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Flash point (ASTM D 92)		>170	°C
lower explosion limit		not determined	Vol%
Upper explosion limit		not determined	Vol%
Ignition temperature		not determined	°C
flammability		not determined	°C
Vapour pressure	20°C	<0,01	hPa
Density	20°C	895	kg/m³
Water solubility	20°C	practically insoluble	g/L

Partition coefficient: n-octanol/water not determined log Pow Kinematic viscosity 40°C 20 mm²/s

Relative vapor density 20°C not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known harzadous reactions.

10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Harzadous decomposition products

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO2), sulphur oxides (SOx), phosphorus oxides.

SECTION 11: Toxicological information

11.1 Information on the hazard classes in accordance with Regulation (EC) Nr. 1272/2008 Acute toxicity

ATEmix calculated:

ATEmix (oral): >2000 mg/kg ATEmix (dermal): >2000 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

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Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Repoductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on the available data, the classification criteria are not met.

11.2 Information on other dangers

none

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT: Criteria are not met vPvB: Criteria are not met

12.6 Endocrine disrupting potential:

No endocrine disrupting properties known.

12.7 Other adverse effects

The product is a water-polluting liquid. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Hand it over to an approved disposal company in compliance with the local official regulations.

EU-waste code

The waste code has to be identified in agreement with the disposal company or the competent authority. Recommended waste code when used properly:

12 01 10* synthetic machining oils

Packaging

Empty container optimally. Handover to an approved waste disposal company. Barrels and IBCs can be reconditioned. Purification by recyclers.

SECTION 14: Transport information

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

- 14.1 UN number or ID number not applicable
- 14.2 UN proper shipping name not applicable
- 14.3 Transport hazard class(es) not applicable
- 14.4 Packing group not applicable
- 14.5 Environmental hazards not applicable
- 14.6 Special precautions for user not applicable
- 14.7 Transport in bulk by sea according to IMO instruments not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations Germany

Water Hazard Class: slightly hazardous to water (WGK 1)

15.2 Chemical Safety Assessment

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To date, no chemical safety assessments are available for the substance described here or the ingredients of the mixture described here.

SESSION 16: Other information

Further information

Methods according to Article 9 of Regulation (EC) No.1272/2008 were used to evaluate the information for the purpose of classification:

Physical hazards: evaluation of test data (flash point) Health and environmental hazards: calculation method

Change service

Changed chapters are marked with a *.

The information is based on our current level of knowledge. They are intended to describe our products with regard to safety requirements and are therefore not intended to guarantee certain properties.

End of the safety data sheet