



KROSS

Empowering Oil



MATIC+ IIIH

SECTION 1: Toxicological information

Identification of the substance/preparation and of the company/undertaking

Product details

Trade name: MATIC + IIIH

Article number: K-TS-130714-001

Application of the substance / the preparation Hydraulic fluid

SECTION 2: Hazards identification

Hazard description

Not applicable.

Information concerning particular hazards for human and environment

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

GHS label elements

Contains alkyloxyleted long chain alkyl amine. May produce an allergic reaction. Safety data sheet available on request.

SECTION 3: Composition/information on ingredients

Dangerous components

methacrylate copolymer  Xi; R 36 2.5-10%
 Warning: 3.3/2

Additional information

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First-aid measures

General information

No special measures required.

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact:

Rinse opened eye for several minutes under running water.

After swallowing:

Do not induce vomiting; call for medical help immediately.

SECTION 5: Fire-fighting measures

Suitable extinguishing agents

CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.

For safety reasons unsuitable extinguishing agents

Water with full jet

Special hazards caused by the substance, its products of combustion or resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

Person-related safety precautions

Wear protective clothing.

Measures for environmental protection

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Remove from the water surface (e.g. skim or suck off).

Additional information

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

Handling

Information for safe handling

No special measures required.

Avoid the formation of oil haze.

Information about fire - and explosion protection

No special measures required.

Storage

Requirements to be met by storerooms and receptacles

Store only in the original receptacle.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

Store in cool, dry conditions in well sealed receptacles.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.



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Additional information

The lists valid during the making were used as basis.

Personal protective equipment

General protective and hygienic measures

Wash hands before breaks and at the end of work.

Respiratory protection

Not required.

Protection of hands

Oil resistant gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

PVC gloves

Neoprene gloves

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

Goggles recommended during refilling

Body protection

Protective work clothing

SECTION 9: Physical and chemical properties

General Information

Form	Fluid
Colour	Red
Odour	Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

Drip point

-

Pour point

-51°C

Flash point

> 101°C

Self-igniting

Product is not selfigniting.

Danger of explosion

Product does not present an explosion hazard.

Density at 20°C

0.857 g/cm³

Solubility in / Miscibility

with water

Not miscible or difficult to mix.

Viscosity

-

Kinematic

-

Viscosity at 40°C

36,4 mm²/s

Solvent content

-

Organic solvents

0.0 %

SECTION 10: Stability and reactivity

Thermal decomposition / conditions to be avoided

To avoid thermal decomposition do not overheat.

Materials to be avoided

Dangerous reactions Reacts with strong oxidizing agents.

Dangerous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

Acute toxicity

Primary irritant effect

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information

The product is not subject to classification according to the calculation method of the General EU.

Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

SECTION 12: Ecological information

Information about elimination (persistence and degradability)

Other information

The product is difficultly biodegradable.

Additional ecological information

General notes

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

Product

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

13 01 10* mineral based non-chlorinated hydraulic oils

Uncleaned packaging

Recommendation

Disposal must be made according to official regulations.

SECTION 14: Transport information

Land transport ADR/RID (cross-border)

ADR/RID class:

-

Maritime transport IMDG:

IMDG Class:

-

Marine pollutant:

No

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class:

-

UN "Model Regulation":

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SECTION 15: Regulatory information

Labelling according to EU guidelines

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

Special labelling of certain preparations:

Contains alkyloxyleted long chain alkyl amine. May produce an allergic reaction.

Safety data sheet available for professional user on request.

National regulations:

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

36 Irritating to eyes.

Department issuing MSDS

Product safety department.

Contact

Product safety department

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

Sources

67/548/EEC - Dangerous Substances Directive

99/45/EEC - Dangerous Preparations Directive

