

Safety data sheet according to UK REACH

Printing date 16.09.2024

Version number 1.6 (replaces version 1.5)

Revision: 25.04.2023

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

1.1 Product identifier

Trade name: **MA-HF Hydraulic fluid**

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Hydraulic oil

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Boss Lubricants GmbH & Co. KG

Chemnitzer Str. 15

72458 Albstadt

Germany

Tel.: +49(0)74 31 - 70 18 18 - 0

Fax: +49(0)74 31 - 70 18 18 - 19

msds@boss-oil.de

Further information obtainable from: Product safety department

1.4 Emergency telephone number:

Boss Helpline +49(0)74 31 - 70 18 18 - 0 during normal opening hours (Mon-Fri, 9.00 - 16.00)

SECTION 2: Hazards identification

2.1 Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the GB CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: This substance is neither persistent, bioaccumulative nor toxic (PBT).

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Preparation

Description:

Mixture of mineral oil and harmless additives.

Not classified as a dangerous preparation according to Directive 1272/2008/EC (GHS).

Dangerous components:

CAS: 64741-88-4	Distillates (petroleum), solvent-refined heavy paraffinic	50-<100%
EINECS: 265-090-8		

Additional information:

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

(Contd. on page 2)

Safety data sheet according to UK REACH

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Version number 1.6 (replaces version 1.5)

Revision: 25.04.2023

Trade name: MA-HF Hydraulic fluid

(Contd. of page 1)

The mineral oils in this product contain < 3% DMSO extract (IP346).

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

*Take affected persons out into the fresh air.**Do not leave affected persons unattended.**Personal protection for the First Aider.**After inhalation: Supply fresh air; consult doctor in case of complaints.*

After skin contact:

Wash with soap and water. Remove contaminated clothing. If symptoms persist, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Remove contact lenses, continue rinsing. If symptoms persist, consult a doctor.

After swallowing:

*Rinse out mouth with water.**Do not induce vomiting; call for medical help immediately.*

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 agents:

*CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents: Water with full jet.*

5.2 Special hazards arising from the substance or mixture

*Formation of toxic/irritating gases possible when heated or in case of fire.**Decomposition products see chapter 10.*

5.3 Advice for firefighters suitable fire suppressants: carbon dioxide (CO₂), foam, dry chemical

Protective equipment:

*Wear protective suit**Mouth respiratory protective device.**Wear self-contained respiratory protective device.**Wear fully protective suit.*

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

*Wear protective equipment. Keep away unprotected persons.**Ensure adequate ventilation**Particular danger of slipping on leaked/spilled product.**Keep away from naked flames, hot surfaces and sources of ignition.**Avoid contact with skin and eyes.**Do not inhale vapours and aerosols.**Close leaks without taking a personal risk.*

(Contd. on page 3)

Safety data sheet according to UK REACH

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Version number 1.6 (replaces version 1.5)

Revision: 25.04.2023

Trade name: MA-HF Hydraulic fluid

(Contd. of page 2)

6.2 Environmental precautions:*Do not allow to enter sewers/ surface or ground water.**In case of seepage into the ground inform responsible authorities.***6.3 Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to section 13.***6.4 Reference to other sections***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****7.1 Precautions for safe handling***Avoid contact with eyes.**Avoid prolonged or repeated skin contact.**Keep receptacles tightly sealed.**Ensure good ventilation/exhaustion at the workplace.**Prevent formation of aerosols.**Particular danger of slipping on leaked/spilled product.**Remove soiled, soaked clothing.**Keep away from food, drink and animal feed.**Wash hands before breaks and at the end of work.**Do not eat, drink or smoke at work.***Information about fire - and explosion protection:***Keep away ignition sources - Do not smoke.**Do not spray onto a naked flame or any incandescent material.***7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:***Provide solvent resistant, sealed floor.**Prevent any seepage into the ground.***Information about storage in one common storage facility:***Store away from oxidising agents.**Store separately from food, luxury foods and animal feed.***Further information about storage conditions:** *Store in cool, dry conditions in well sealed receptacles.***Storage class:** *10 - flammable liquid, flashpoint >60°C***7.3 Specific end use(s)** *No further relevant information available.***SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:** *TWA: 5 mg/m³ (oil mist)***Additional information:** *The lists that were valid during the creation were used as basis.***8.2 Exposure controls****Appropriate engineering controls** *No further data; see section 7.***General protective and hygienic measures:***Do not eat or drink while working.**Keep away from foodstuffs, beverages and feed.**Immediately remove all soiled and contaminated clothing**Wash hands before breaks and at the end of work.*

(Contd. on page 4)

Safety data sheet

according to UK REACH

Printing date 16.09.2024

Version number 1.6 (replaces version 1.5)

Revision: 25.04.2023

Trade name: MA-HF Hydraulic fluid

(Contd. of page 3)

*Do not inhale gases / fumes / aerosols.**Avoid close or long term contact with the skin.**Avoid contact with the eyes.***Respiratory protection:***Not necessary if room is well-ventilated.**Use suitable respiratory protective device in case of insufficient ventilation.**Use suitable respiratory protective device only when aerosol or mist is formed.**Filter A/P2***Hand protection***Protective gloves (EN 374)***Material of gloves**

Use solvent/hydrocarbon resistant protective gloves in accordance with EN 374. Gloves made of the following materials are suitable: nitrile rubber (thickness > 0.38 mm, penetration time > 480 min), fluororubber (thickness > 0.38 mm, penetration time > 480 min).

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.

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/face protection*Safety goggles with side protection (frame goggles) (EN 166).***Body protection:** *Protective work clothing (EN 14605)*

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Physical state***Fluid***Colour:***Yellowish***Odour:***Characteristic***Odour threshold:***Not determined.***Melting point/freezing point:***Not determined.***Boiling point or initial boiling point and boiling range***Not determined.***Flammability***Not applicable.***Flash point:***>200 °C***Auto-ignition temperature:***Not determined.***Decomposition temperature:***Not determined.***Viscosity:****Kinematic viscosity at 40 °C***46 mm²/s***Solubility****water:***Not miscible.***Partition coefficient n-octanol/water (log value)***Not determined.***Density and/or relative density****Density at 20 °C:***0.85 g/cm³***Relative density***Not determined.*

(Contd. on page 5)

Safety data sheet according to UK REACH

Printing date 16.09.2024

Version number 1.6 (replaces version 1.5)

Revision: 25.04.2023

Trade name: MA-HF Hydraulic fluid

(Contd. of page 4)

9.2 Other information**Appearance:****Form:**

Fluid

Important information on protection of health and environment, and on safety.**Ignition temperature:**

Product is not selfigniting.

Explosive properties:

Product does not present an explosion hazard.

Change in condition**Softening point/range****Oxidising properties**

Non-oxidising.

Evaporation rate

Not determined.

Information with regard to physical hazard classes**Explosives**

Void

Flammable gases

Void

Aerosols

Void

Oxidising gases

Void

Gases under pressure

Void

Flammable liquids

Void

Flammable solids

Void

Self-reactive substances and mixtures

Void

Pyrophoric liquids

Void

Pyrophoric solids

Void

Self-heating substances and mixtures

Void

Substances and mixtures, which emit flammable gases in contact with water

Void

Oxidising liquids

Void

Oxidising solids

Void

Organic peroxides

Void

Corrosive to metals

Void

Desensitised explosives

Void

SECTION 10: Stability and reactivity**10.1 Reactivity** Stable under recommended storage conditions.**10.2 Chemical stability** Stable under normal conditions.**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** Keep away from strong oxidants as well as reducing agents.**10.5 Incompatible materials:**

strong oxidants

strong reducing agents

10.6 Hazardous decomposition products:

In case of fire:

CO₂, CO, NO_x, SO_x

Phosphorus oxides

Under certain conditions of fire, other toxic/irritant substances may form.

GB

(Contd. on page 6)

Safety data sheet according to UK REACH

Printing date 16.09.2024

Version number 1.6 (replaces version 1.5)

Revision: 25.04.2023

Trade name: MA-HF Hydraulic Fluid

(Contd. of page 5)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values relevant for classification:

Oral	LD50	>5,000 mg/kg (Acute Toxicity Estimate)
Dermal	LD50	>5,000 mg/kg (Acute Toxicity Estimate)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or 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.

Reproductive 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 available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Other information:

General notes:

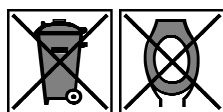
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation



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

Must be specially treated adhering to official regulations.

(Contd. on page 7)

Safety data sheet according to UK REACH

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Version number 1.6 (replaces version 1.5)

Revision: 25.04.2023

Trade name: MA-HF Hydraulic fluid

(Contd. of page 6)

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number**ADR, ADN, IMDG, IATA**

not regulated

14.2 UN proper shipping name**ADR, ADN, IMDG, IATA**

not regulated

14.3 Transport hazard class(es)**ADR, ADN, IMDG, IATA****Class**

not regulated

14.4 Packing group**ADR, IMDG, IATA**

not regulated

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO**instruments**

Not applicable.

Transport/Additional information:**IMDG****Limited quantities (LQ)**

not any

UN "Model Regulation":

not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**Labelling according to Regulation (EC) No 1272/2008** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is listed.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

Training hints

Upon request trainings for to ensure safety of human health and of environment can be given. Contact see below.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

(Contd. on page 8)

GB

Safety data sheet
according to UK REACH

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Revision: 25.04.2023

Trade name: MA-HF Hydraulic fluid

(Contd. of page 7)

Contact: *msds@boss-oil.de***Abbreviations and acronyms:***ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**GHS: Globally Harmonised System of Classification and Labelling of Chemicals**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative***Sources***Data of raw material suppliers.**GESTIS-Stoffdatenbank, Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung, <https://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp>.*

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