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

1.1 Product identifier

MD-Kupferpaste
Article number: MCO

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

1.2.1 Relevant uses

Lubricant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Marston Domsel GmbH

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Homepage www.marston-domsel.de E-mail info@marston-domsel.de

Address enquiries to

Technical information info@marston-domsel.de
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Aquatic Acute 1: H400 Very toxic to aquatic life.

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms

*

Signal word WARNING

Hazard statements H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Human health dangers Frequent persistent contact with the skin can cause skin irritation.

Other hazards Further hazards were not determined with the current level of knowledge.



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SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%] Substance

2,5 - 5 Copper

CAS: 7440-50-8, EINECS/ELINCS: 231-159-6, Reg-No.: 01-2119480154-42

GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 2: H411 - Acute Tox. 4: H302, M = 10

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation not applicable

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Get medical advice.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam.

Water spray jet. Carbon dioxide.

Extinguishing media that must not

Full water jet.

be used

Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO).

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Forms slippery surfaces with water.

High risk of slipping due to leakage/spillage of product.



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6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Do not store together with oxidizing agents.

Protect from heat/overheating.

Keep in a cool place.

Keep container in a well-ventilated place.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Substance
Copper, CAS: 7440-50-8
Industrial, inhalative, Acute - local effects: 1 mg/m³.
Industrial, inhalative, Long-term - local effects: 1 mg/m³.
Industrial, dermal, Acute - systemic effects: 273 mg/kg bw/day.
Industrial, dermal, Long-term - systemic effects: 137 mg/kg bw/day.
general population, inhalative, Long-term - local effects: 1 mg/m³.
general population, inhalative, Acute - local effects: 1 mg/m³.
general population, oral, Long-term - systemic effects: 0,041 mg/kg bw/day.
general population, dermal, Acute - systemic effects: 273 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 137 mg/kg bw/day.

PNEC

Substance
Copper, CAS: 7440-50-8
soil, 65 mg/kg.
sediment (seawater), 676 mg/kg.
sediment (freshwater), 87 mg/kg.
sewage treatment plants (STP), 230 µg/L.
seawater, 5,2 µg/L.
freshwater, 7,8 µg/L.

8.2 Exposure controls

Additional advice on system design not applicable

Eye protection Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information. In full contact:

> 0,11 mm: Butyl rubber, >480 min (EN 374-1/-2/-3).

In splash contact:

> 0,11 mm: Butyl rubber, >120 min (EN 374-1/-2/-3).

Skin protection not applicable

Other Avoid contact with eyes and skin.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection not applicable
Thermal hazards not applicable
Delimitation and monitoring of the
environmental exposition

not applicable
not determined



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form pasty

Color brownish

Odor characteristic

Odour threshold No information available.

pH-value No information available.

pH-value [1%] not applicable

Boiling point [°C] No information available.

Flash point [°C] No information available.

Flammability (solid, gas) [°C] No information available.

Lower explosion limitnot applicableUpper explosion limitnot applicable

Oxidising properties no

Vapour pressure/gas pressure [kPa] No information available.

Density [g/ml] 1,08 - 1,18

Bulk density [kg/m³] not applicable

Solubility in water immiscible

Partition coefficient [n-octanol/water] No information available.

Viscosity No information available.

Relative vapour density determined

in air

No information available.

Evaporation speed No information available.

Melting point [°C] No information available.

Autoignition temperature [°C] No information available.

Decomposition temperature [°C] not applicable

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No special measures necessary.

10.5 Incompatible materials

No special measures necessary.

10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance

Copper, CAS: 7440-50-8

LD50, oral, Rat: > 300 - 2000 mg/kg.

LC50, inhalative, Rat: 1-5 mg/m³/4h.

Serious eye damage/irritation Toxicological data of complete product are not available.

> Based on the available information, the classification criteria are not fulfilled. Based on the available information, the classification criteria are not fulfilled.

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled. Specific target organ toxicity -

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity —

repeated exposure

single exposure

General remarks

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Mutagenicity Based on the available information, the classification criteria are not fulfilled. Reproduction toxicity Based on the available information, the classification criteria are not fulfilled. Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Substance

Copper, CAS: 7440-50-8

LC50, Pimephales promelas: 0,0068-0,0156 mg/l.

EC50, (72h), Pseudokirchneriella subcapitata: 0,0426-0,0535 mg/l

EC50, (48h), Daphnia magna: 0,03 mg/l

NOEC, (24h), Daphnia magna: 0,004 mg/l.

12.2 Persistence and degradability

Behaviour in environment

compartments

not determined

Behaviour in sewage plant

Obtain approval of the relevant authorities before discharging into sewage treatment plants.

Biological degradability The product is biodegradable.

12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required or not conducted.

12.6 Other adverse effects

Ecological data of complete product are not available.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 120109*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID

3077

Inland navigation (ADN)

3077

Marine transport in accordance with

IMDG

3077

Air transport in accordance with IATA 3077

14.2 UN proper shipping name

Transport by land according to

ADR/RID

Environmentally hazardous substance, solid, n.o.s. (Copper metal powder)

- Classification Code

- Label



- ADR LQ 5 k

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (-)

Inland navigation (ADN) Environmentally hazardous substance, solid, n.o.s. (Copper metal powder)

- Classification Code M7

- Label

Marine transport in accordance with

Environmentally hazardous substance, solid, n.o.s. (Copper metal powder)

IMDG - EMS

F-A, S-F

- Label

M,

- IMDG LQ 5 kg

Air transport in accordance with IATA Environmentally hazardous substance, solid, n.o.s. (contains Copper metal powder)

- Label



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14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

Inland navigation (ADN)

Marine transport in accordance with

IMDG

Air transport in accordance with IATA 9

14.4 Packing group

Transport by land according to

ADR/RID

Inland navigation (ADN) Ш

Marine transport in accordance with

IMDG

Air transport in accordance with IATA III

14.5 Environmental hazards

Transport by land according to

ADR/RID

yes

9

Ш

Inland navigation (ADN) yes

Marine transport in accordance with MARINE POLLUTANT

IMDG

Air transport in accordance with IATA yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions

for people

not applicable

- VOC (2010/75/CE) not applicable

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

Route

RID = Règlement concernant le transport international ferroviaire de marchandises

dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure

ATE = acute toxicity estimate CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Customs Tariff not determined

Classification procedure Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position SECTION 2 been added: H412 Harmful to aquatic life with long lasting effects.

SECTION 2 been added: Aquatic Chronic 3 SECTION 2 deleted: Aquatic Chronic 2

SECTION 2 deleted: H411 Toxic to aquatic life with long lasting effects.

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