

T-LAB, s.r.o.

SAFETY DATA SHEET
According to COMMISSION (EU) 2020/878

Release date: 01. 02. 1995

Revision date: 04/01/2023

Changes since the last revision of 25.02.2020: change in the wording of Note L, addition of points 11.2.1, 12.6 and 13.3 BL.

Product name: **MWF**

Section 1. Identification of the substance/mixture and company/undertaking

1.1 Product identifier:

Trade name of the product: **MWF**

Product Description: Liquid

1.2 Recommended use of the substance: cutting fluid for molybdenum machining

1.3 Details of the supplier of the safety data sheet:

Headquarters: T-LAB, s.r.o.

ID: Řipská 9a, 627 00 Brno

Phone: 607 01 803

e-mail: 545 233 457

The safety data sheet was prepared by: info@tlab.cz

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1.4 Emergency phone number: Toxicology Information Centre, Na Bojišti 1, 128
08 Prague 2; **telephone (24 hours/day) 224 919 293,**
224 915 402, 224 914 575

Section 2. Hazard identification

2.1 CLP classification of the mixture:

If the mixture does not meet the criteria for classification.

2.2 Marking elements:

MWF

Recommended use of the substance: cutting fluid for machining with molybdenum

Warning symbols: -

Signal word: -

Dangerous substances: -

Standard hazard statements: -

Instructions for safe handling: -

The most serious adverse physico-chemical and human health and environmental effects:

n/a

General information: wear suitable work clothing, gloves and safety glasses. Work in ventilated areas.

Do not eat, drink or smoke while working.

Supplier: T - LAB, s.r.o., Řipská 9a, Slatina, 627 00 Brno, *Phone:* 545 233 457, *ID:* 607 01 803, *e-mail:* info@tlab.cz

2.3 Additional label information: EUH210 Material Safety Data Sheet available on request.

Results of PBT and vPvB assessment: the product does not contain substances classified as PBT and vPvB at the date of the safety data sheet.

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Section 3. Composition or information on ingredients

Identification numbers	Chemical name of the substance	Concentration %	CLP classification
CAS: 63449-39-8 EC: 264-150-0 RIN: 01-2119494016-38	chlorinated paraffin and hydrocarbon waxes	30-60	Unclassified*
CAS: 64742-65-0 EC: 265-169-7 RIN: 01-2119471299-27	Distillates (petroleum), solvent-dewaxed heavy paraffinic	30-60	Unclassified**

* ECHA classification

** *Note L:*

Unless it can be shown that the substance contains less than 3 % dimethyl sulfoxide extract when determined by the procedure IP 346 ('Determination of polycyclic aromatic substances in unused lubricating oils and petroleum fractions without asphaltene - Dimethyl sulfoxide extract refractive index method', Institute of Petroleum, London), the harmonised classification of the substance as a carcinogen shall be applied, in which case the classification under Title II of this Regulation shall also be made for that hazard class.

Section 4. First aid instructions

4.1 First aid:

General instructions: immediate medical attention is not required, but if you have persistent problems or if in doubt, seek medical attention. If health problems develop or if you should

If in doubt, notify your doctor and provide him/her with the information on the label (packaging) or in this safety data sheet. If unconscious, place the person in a stable position on his/her side, with head slightly inclined, loosen clothing and ensure airway patency.

Never induce vomiting; if the person vomits on his/her own, take care not to inhale vomit. Observe personal safety during rescue operations.

In case of inhalation: take the victim out into the fresh air, loosen clothing and let him/her lie still.

Clear the airway. In the event of irregular breathing or respiratory arrest, immediately administer artificial respiration, ventilator support or oxygen. Call a doctor. Place and transport the casualty in a stable position.

In case of contact with skin: remove contaminated clothing, wash the affected area with a large stream of soap and water, treat with reparative cream.

In case of eye contact: irritation and redness may occur. Rinse immediately with clean water for 10 - 15 minutes with eyelid open. Consult an ophthalmologist.

After ingestion: rinse mouth with water, do not force the affected person to vomit, if the affected person vomits, take care not to inhale vomit, ensure medical treatment.

4.2 Most important acute and delayed symptoms and effects:

Inhalation: no inhalation occurs with normal use and observance of basic hygiene regulations.

In contact with skin: mild irritation usually does not persist.

In case of eye contact: irritates the eyes, redness of the whites may occur.

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If swallowed: do not induce vomiting. Place the vomiting person on his/her side in a stable position.
Call a doctor immediately.

4.3 Instructions for immediate medical attention and special treatment: symptomatic treatment.

Section 5. Fire fighting measures

5.1 Extinguishing agents:

Suitable extinguishing agents: extinguishing powder, CO₂, light foam, water jet, sand.

Unsuitable extinguishing agents: strong water jet.

5.2 Special hazards arising from the substance or mixture: CO, CO₂ may be formed.

5.3 Instructions to firefighters: use respiratory protection when there is a strong concentration of fumes or smoke. Use a breathing apparatus in a confined space.

Section 6. Measures in the event of accidental spillage

6.1 Measures to protect persons, protective equipment and emergency procedures:

For workers except emergency responders Wear appropriate protective equipment - protective clothing, goggles, gloves and work boots. Ensure adequate ventilation. Risk of slipping in case of spillage. Follow the instructions contained in Chapters 7 and 8.

For emergency responders: Wear appropriate protective equipment - protective clothing, goggles, gloves and work boots.

6.2 Environmental precautions: avoid leakage of the product into water, sewers, watercourses with absorbent material. In case of leakage into these areas, inform the competent authorities.

6.3 Methods and materials for containment and clean-up: stop leak sorbents, soaked sorbents - Rags or other absorbent material - dry soil, sand, vapex - to be deposited in suitable waste containers. Disposal according to local regulations and Act 185/2001 Coll. as amended.

Section 7. Handling and storage

7.1 Precautions for safe handling: do not eat, drink or smoke while working. Wash hands before taking a break or at the end of working hours. Treat hands with hand cream. Avoid contact with the eye. Remove immediately any contaminated clothing. Avoid aerosol formation, ensure adequate ventilation. Do not inhale aerosol. Avoid contact with skin and eyes.

7.2 Storage instructions: store the well-closed original container in a cool, dry and well-ventilated place.

Suitable packaging: plastic packaging - letter code HDPE numeric code 2, metal packaging - FE - 40

Inappropriate packaging.

7.3 Specific uses: cutting fluid for machining with molybdenum.

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Section 8: Exposure limitation / personal protective equipment

Technical precautions: store the well-closed original container in a cool, dry and well-ventilated place.

8.1 control parameters: PEL and NPK-P: not specified.

Other data on limit values:

DNEL for CAS 63449-39-8: chlorinated paraffin and hydrocarbon waxes

DNEL worker:	
Inhaled long-term systemic effects	63,5 mg/m ³
Dermal long-term systemic effects	450 mg/kg
DNEL consumer:	
Inhaled long-term systemic effects	225 mg/kg
Dermal long-term systemic effects	4,5 mg/kg

DNEL for CAS 64742-65-0: Distillates (petroleum), solvent-dewaxed heavy paraffinic

DNEL worker:	
Inhaled long-term systemic effects	2,73 mg/m ³
Inhalation local effect long-term	5,58 mg/m ³
Dermal long-term systemic effects	970 µg/kg
DNEL consumer:	
Inhalation local effect long-term	1,19 mg/m ³
Oral long-term systemic effects	740 µg/kg

PNEC for CAS 63449-39-8: chlorinated paraffin and hydrocarbon waxes

fresh water	2,9 µg/l
intermittent leakage of fresh water	2,9 µg/l
sea water	580 ng/l
WWTP	60 mg/l
sediment fresh water	5 710 mg/kg
sediment seawater	5,71 µg/l
Land	4.64 g/kg
secondary poisoning for predators	10 mg/kg of food

PNEC for CAS 64742-65-0: Distillates (petroleum), solvent-dewaxed heavy paraffinic No data available: testing not technically feasible.

8.2 Worker exposure limitation: see section 7 of the safety data sheet for a full set of specific protection and precautionary measures. Use normal precautions when handling chemicals. Do not eat, drink or smoke while working. Wash hands with soap and water during breaks and after work. Do not wash or touch your eyes with dirty hands.

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Personal protective equipment: workers are required to wear appropriate protective clothing, work gloves.

Respiratory protection: not necessary if there is sufficient ventilation, otherwise a respirator, CE marked. Anti-gas and combined filters should comply with European standard EN14387. Full face masks with replaceable filter should comply with the conditions of European Standard EN136. Half masks and quarter masks with replaceable filters should comply with European Standard EN140.

Hand protection: rubber protective gloves.

Eye protection: where there is a risk of eye contact, workers must wear safety glasses or a protective shield when working.

Personal and occupational hygiene: wash dirty hands with soap and water before a break or at the end of working hours. Do not eat, drink or smoke while working. Ensure good ventilation. Avoid prolonged skin contact. Remove contaminated clothing immediately.

Section 9: Information on basic physical and chemical properties

Concentration (at +20 ⁰ C):	liquid
Colour:	Green
The smell:	Characteristic
Odour threshold:	not specified
Melting point / freezing point (⁰ C):	-
Boiling point and boiling point range (⁰ C):	-
Flammability:	n/a
Explosive limit:	n/a
Flash point (⁰ C):	-
Autoignition temperature (⁰ C):	-
Decomposition temperature (⁰ C):	-
pH of the concentrate:	-
Kinematic viscosity:	52.6 mm /s ²
Solubility (at20 ⁰ C):	
- in the water:	insoluble
- in fat:	miscible
Partition coefficient: n-octanol/water:	-
Steam pressure:	-
Density and/or relative density:	1.012 g/cm ³
Relative vapour density:	-
Further information: see the new BL decree	
Oxidation properties:	data not available

Section 10. Stability and reactivity

10.1 Reactivity: no known reactivity under normal conditions.

10.2 Chemical stability: under normal conditions the product is stable.

10.3 Potential for hazardous reactions: not known.

10.4 Conditions to be avoided: none listed

10.6 Hazardous decomposition products: thermal decomposition (fire) produces CO_x.

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Section 11. Toxicological information

Experience in humans: **These are not dangerous preparations from the point of view of toxicity.**

11.1 acute toxicity: does not meet the conditions for classification.

For CAS 63449-39-8: chlorinated paraffin and hydrocarbon waxes

LD50 orally rat	> 10000 mg/kg
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For CAS 64742-65-0: Distillates (petroleum), solvent-dewaxed heavy paraffinic

LD50 orally brown rat	> 5000 mg/kg
LD50 inhalation brown rat	> 5000 mg/m ³
LD50 dermal rabbit	2000 mg/kg

- b) Skin corrosion/irritation:** *the* criteria for classification are not met.
- c) Serious eye damage/eye irritation:** *the* criteria for classification are not met.
- d) Respiratory/skin sensitisation:** *the* criteria for classification are not met.
- e) Germ cell mutagenicity:** *the* criteria for classification are not met.
- f) Carcinogenicity:** *the* criteria for classification are not met.
- g) Reproductive toxicity:** *the* criteria for classification are not met.
- h) Specific target organ toxicity - single exposure:** *the* criteria for classification are not met.
- i) Specific target organ toxicity - repeated exposure:** *The* criteria for classification are not met.
- j) Inhalation hazard:** *The* criteria for classification are not met.

11.2 Information on other hazards:

11.2.1 Endocrine disrupting properties: none known.

11.2.2 Further information:

Inhalation: vapours may cause respiratory tract irritation with coughing. High concentrations of the substance may cause headaches.

Eye contact: direct contact with liquid or high concentrations of vapour may cause irritation with transient redness.

Skin contact: prolonged contact may cause irritation and reddening of the skin.

If swallowed: stomach and intestinal disturbances and pain occur.

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Section 12. Environmental information

The product is not considered hazardous to the environment. However, large or frequent spills may be hazardous to the environment.

12.1 Toxicity of the mixture: based on the available data, the criteria for classification are not met.

For CAS 63449-39-8: chlorinated paraffin and hydrocarbon waxes

LC50 for freshwater fish, 4 days	770 mg/l
NOEC for fish 60 days	4 mg/l
EC0 for aquatic invertebrates	360 - 5 100 µg/l
NOEC for aquatic invertebrates 60 days	1,33 - 2,18 mg/l
EC50 for algae and cyanobacteria, 4 days	3,2 mg/l

For CAS 64742-65-0: Distillates (petroleum), solvent-dewaxed heavy paraffinic

LL50 for fish, 4 days	100 mg/l
LL50 for aquatic invertebrates, 4 days	10 g/l

12.2 Persistence and degradability: the degradability of the product is unknown.

12.3 Bioaccumulation potential: no data known.

12.4 Mobility in soil: no known data.

12.5 Results of the PBT and vPvB assessment: the product does not contain substances classified as PBT and vPvB at the date of the safety data sheet.

12.6 Endocrine disrupting properties: does not contain substances on the main European lists of potential or suspected endocrine disruptors with assessed environmental effects.

12.7 Other information: -

Section 13. Disposal instructions

13.1 Methods of waste treatment: dispose of by burning in special incinerators with pyrolysis. Proceed according to the Waste Act No. 541/2020 Coll., i.e. hand over to the authorised person according to this Act. According to the waste catalogue: 12 01 06 waste mineral cutting oils containing halogens (except emulsions and solutions).

13.2 Methods of packaging management: proceed according to Act No. 541/2020 Coll. Do not dispose of with municipal waste. To be handed over to a person authorised to receive this type of waste. According to the waste catalogue classified as: 15 01 10 packaging containing residues of hazardous substances or packaging contaminated with such substances.

13.3 Legislation on packaging: the supplier is on the List of persons who are obliged to take back and recover packaging waste according to Section 14 of the Packaging Act under registration number: 0119/560/1785/03.

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Section 14. Transport information

Not classified as hazardous for transport.

Section 15. Information on regulations

15.1 Information on authorisations and restrictions for all substances contained in the mixture: not specified.

15.2 Chemical safety assessment: not performed.

Safety, health and environmental regulations/specific legislation relating to the substance or mixture:

COMMISSION REGULATION (EU) 2016/918 of 19 May 2016, COMMISSION REGULATION (EU) 2016/1179 of 19 July 2016, COMMISSION REGULATION (EU) 2017/542 of 22 March 2017, COMMISSION REGULATION (EU) 2018/669 of 16 April 2018

Commission Regulation (EC) No 790/2009. Commission Directive 91/322/EEC on the setting of guide limit values for the implementation of Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work. Regulation (EC) No 396/2005 of the European Parliament and of the Council on maximum residue levels for pesticides in and on food and feed of plant and animal origin and amending Council Directive 91/414/EEC. Commission Regulation (EC) No 149/2008 amending Regulation (EC) No 396/2005 of the European Parliament and of the Council by establishing Annexes II, III and IV setting maximum residue limits for the products listed in Annex I to Regulation No 396/2005. Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents used at work (14th individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC). Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values for the implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents used at work. Commission Directive 2006/15/EC laying down a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC. Act on Public Health Care (20/1966 Coll.), as amended, in particular Act No. 258/2000 Coll. (Act on the Protection of Public Health) Act No. 258/2000 Coll. on the Protection of Public Health and on Amendments to Certain Related Acts, as amended. Act No. 309/2006 Coll. regulating further requirements for occupational safety and health in labour relations and on ensuring safety and health in the course of activities or provision of services.

Section 16. Other information

Changes since the last revision of 25/02/2020: change in wording of Note L, addition of 11.2, 12.6 and 13.3 BL.

Legend to abbreviations and abbreviated words:

CAS	A unique numerical identifier for chemical substances.
EC (EINECS)	Existing substances (European Inventory of Existing Commercial Chemical Substances).
NPK-P	The maximum permissible concentration in the working environment.
PEL	Permissible exposure limit.
DNEL	The derived level at which no adverse effects occur.

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PNEC Estimate of the concentration at which no adverse effects occur.

Sources of the most important data: the original BL of the manufacturer.

H phrases one unlisted: -

Instructions for training: not subject to training by an authorised person, general training - handling of chemicals and preparations.