

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MECUTOIL 100 Art. 60 1100 10, 60 1100 5 ,60 1100 25

Revision date: 01.01.2021

Product code: 17

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Watersoluble Metalworkingfluid

1.3. Details of the supplier of the safety data sheet

Company name:	Karnasch Professional Tools GmbH	
Street:	Siemensstr. 1	
Place:	D-68542 Heddesheim	
Telephone:	+49 (0) 62 03 / 40 39 - 0	Telefax: +49 (0) 6203 4159 - 0
e-mail:	info@karnasch.tools	
Contact person:	Volker Mayer, Sascha Riedel	
Internet:	www.karnasch.tools	
Responsible Department:	Volker Mayer, Sascha Riedel: Tel: 06203 / 4039 - 0 Tel: 033675 / 7265 - 0	

**1.4. Emergency telephone
number:**

Emergency telephone number (24h) + 44 1235 239670 (en)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container to appropriate waste site or reclaimer in accordance with local and national regulations..

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

according to Regulation (EC) No 1907/2006

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-56-9	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic			50 - <= 100 %
	265-159-2		01-2119480132-48	
	Asp. Tox. 1; H304			
122-99-6	2-phenoxyethanol			2.5 - < 5 %
	204-589-7	603-098-00-9	01-2119488943-21	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
68920-66-1	Fettalkoholpolyglykoether			2.5 - < 5 %
			01-2119489407-26	
	Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 2; H315 H400 H411			
68608-26-4	Natriumsulfonat			1 - < 2.5 %
	271-781-5		01-2119527859-22	
	Eye Irrit. 2; H319			
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt			0.1 - < 1 %
	223-296-5		01-2119493385-28	
	Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2; H332 H302 H318 H400 H411			

Full text of H and EUH statements: see section 16.

Specific concentration limits and M-factors

CAS No	EC No	Chemical name	Quantity
	Specific concentration limits and M-factors		
3811-73-2	223-296-5	pyridine-2-thiol 1-oxide, sodium salt	0.1 - < 1 %
	M akut; H400: M=100		

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

Seek medical attention if problems persist. No administration in cases of unconsciousness or cramps.

After inhalation

Provide fresh air. Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing. Remove contaminated, saturated clothing immediately.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water. Do NOT induce vomiting. In case of swallowing, keep the patient at rest and contact a doctor.

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

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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Water fog. Foam. Dry extinguishing powder. Carbon dioxide (CO₂).**Unsuitable extinguishing media**

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:

Nitrogen oxides (NO_x).

Carbon monoxide

Carbon dioxide (CO₂).**5.3. Advice for firefighters**

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

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

6.2. Environmental precautions

Contain and control the leaks or spills with noncombustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Large quantities remove mechanically

Clean contaminated articles and floor according to the environmental legislation. Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Use only in well-ventilated areas.

Direct contact with skins avoid.

When using do not eat, drink or smoke.

Advice on protection against fire and explosion

Prevent access by unauthorised personnel.

Further information on handling

When using do not eat, drink or smoke.

High slip hazard because of leaking or spilled product.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 5-40 °C

Maximum period of storage (time): 1 year

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Do not store with strong oxidizing agents.

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Further information on storage conditions

te regulations relating to storage premises apply to workshops where the product is handled.

Maximum period of storage (time): 1 year

7.3. Specific end use(s)

Watersoluble Metalworkingfluid

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
122-99-6	2-phenoxyethanol			
Worker DNEL, long-term		dermal	systemic	34,72 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	8,07 mg/m ³
Worker DNEL, long-term		inhalation	local	8,07 mg/m ³
Consumer DNEL, long-term		oral	systemic	17,43 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	17,43 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	20,83 mg/person/day
Consumer DNEL, long-term		inhalation	local	2,5 mg/m ³
Consumer DNEL, acute		inhalation	local	2,5 mg/m ³

PNEC values

CAS No	Substance	Environmental compartment	Value
122-99-6	2-phenoxyethanol		
		Freshwater	0,943 mg/l
		Marine water	0,0943 mg/l
		Freshwater sediment	7,2366 mg/kg
		Marine sediment	0,7237 mg/kg
		Soil	1,26 mg/kg
68920-66-1	Fettalkoholpolyglykolether		
		Freshwater	0,002 mg/l
		Marine water	0,002 mg/l
		Freshwater sediment	6,33 mg/kg
		Marine sediment	6,33 mg/kg
		Soil	1,0 mg/kg

Additional advice on limit values

 Additional information: Pyridin-2-thiol-1-oxid, Natriumsalz (CAS 3811-73-2) 0,2 E mg/m³ (02/19).

8.2. Exposure controls

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Protective and hygiene measures

Use personal protection equipment as per Directive 89/686/EEC.

Eye/face protection

Use glasses or face shield if there is a risk of splashing. DIN EN 166

Hand protection

Protect skin by using skin protective cream.

Wear protective gloves if advisable under safety aspects.

Wash hands before breaks and after work.

Gloves of appropriate material (i.e. nitrilic rubber, specification: penetration time: level 6, >480 min., thickness 0,9-1 mm; CE-certified acc. EN 374 cat III)

Skin protection

Chemical resistant safety shoes.

Take off immediately all contaminated clothing.

Thorough skin-cleansing after handling the product.

Set out skin protection guidelines.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light brown
Odour:	characteristic
Odour threshold:	characteristic

pH-Value (at 20 °C):	in aqueous solution 5% ; 8,9	Test method DIN 51369
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Changes in the physical state

Initial boiling point and boiling range:	not relevant
Pour point:	not determined
Flash point:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	0,91 g/cm ³ EN ISO 12185
Viscosity / dynamic:	not determined
Viscosity / kinematic: (at 20 °C)	93 mm ² /s ASTM D 7042

9.2. Other information

No information available.

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SECTION 10: Stability and reactivity
10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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 hazardous reactions.

10.4. Conditions to avoid

Protect against: heat.

10.5. Incompatible materials

The following must be prevented: Oxidizing agents, strong acid.

10.6. Hazardous decomposition products

Hazardous decomposition products: none

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-56-9	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic				
	oral	LD50 > 5000 mg/kg	RAT		
	dermal	LD50 >5000 mg/kg	RABBIT		
122-99-6	2-phenoxyethanol				
	oral	LD50 1840 mg/kg	Rat		
	dermal	LD50 > 2214 mg/kg	Rabbit		
68920-66-1	Fettalkoholpolyglykoether				
	oral	LD50 > 2000 mg/kg	Rat		CESIO
	dermal	LD50 > 2000 mg/kg	Rabbit		OECD 404
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt				
	oral	LD50 1250 mg/kg	Rat		
	dermal	LD50 > 2001 mg/kg	Rabbit		
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 1,25 mg/l			

Additional information on tests

No risks worthy of mention. Practical experience.

The statement is derived from the properties of the single components.

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

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SECTION 12: Ecological information
12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-56-9	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Dickkopfritzel		
	Acute algae toxicity	ErC50 > 100 mg/l		GHRunalgen		
	Acute crustacea toxicity	EC50 > 1000 mg/l	48 h	Daphnia magna		
122-99-6	2-phenoxyethanol					
	Acute fish toxicity	LC50 220 - 460 mg/l	96 h	Leuciscus idus		
	Acute algae toxicity	ErC50 > 500 mg/l	72 h	Scenedesmus sp.		
	Acute crustacea toxicity	EC50 > 500 mg/l	48 h	Daphnia magna		
	Fish toxicity	NOEC 23 mg/l		Pimephales promelas		
	Crustacea toxicity	NOEC 9,43 mg/l		Daphnia magna		
	Acute bacteria toxicity	(880 mg/l)		Bacteria		
68920-66-1	Fettalkoholpolyglykoether					
	Acute fish toxicity	LC50 108 mg/l	96 h	Brachydanio rerio (zebra-fish)		OECD 203
	Acute bacteria toxicity	(>10000 mg/l)				OECD 209
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt					
	Acute fish toxicity	LC50 0,0066 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 0,46 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 0,022 mg/l	48 h	Daphnia magna		
	Algae toxicity	NOEC 0,08 mg/l	3 d	Pseudokirchneriella subcapitata		OECD 201

12.2. Persistence and degradability

The product has not been tested.

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CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
64742-56-9	Baseoil - unspecified, Distillates (petroleum), solvent-dewaxed light paraffinic				
	OECD TG 301 B		30%	28	
	Inhärenter Schlamm		30 %	28	
122-99-6	2-phenoxyethanol				
	OECD 301 F		90 %		
	Das Produkt ist biologisch leicht abbaubar.				
	OECD 301 A		90 %		
	Das Produkt ist biologisch leicht abbaubar.				
68920-66-1	Fettalkoholpolyglykoether				
	OECD 301 B		> 70 %	28	
	Product is biodegradable.				
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt				
	OECD 301 B CO2-Evolution		> 70 %	28	
	Biodegradable.				

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
122-99-6	2-phenoxyethanol	1,2

BCF

CAS No	Chemical name	BCF	Species	Source
122-99-6	2-phenoxyethanol	< 100		
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt	< - 1,09		

12.4. Mobility in soil

in delivery condition: liquid

12.5. Results of PBT and vPvB assessment

none according to Regulation (EC) No. 1907/2006 (REACH)

12.6. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Completely emptied packings can be re-cycled. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

List of Wastes Code - used product

120107 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions); hazardous waste

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SECTION 14: Transport information**Land transport (ADR/RID)**

- 14.1. UN number:** Not a hazardous material with respect to transportation regulations.
14.2. UN proper shipping name: Not a hazardous material with respect to transportation regulations.
14.3. Transport hazard class(es): Not a hazardous material with respect to transportation regulations.
14.4. Packing group: Not a hazardous material with respect to transportation regulations.

Other applicable information (land transport)

Not restricted

Inland waterways transport (ADN)

- 14.1. UN number:** Not a hazardous material with respect to transportation regulations.
14.2. UN proper shipping name: Not a hazardous material with respect to transportation regulations.
14.3. Transport hazard class(es): Not a hazardous material with respect to transportation regulations.
14.4. Packing group: Not a hazardous material with respect to transportation regulations.

Other applicable information (inland waterways transport)

Not restricted

Marine transport (IMDG)

- 14.1. UN number:** Not a hazardous material with respect to transportation regulations.
14.2. UN proper shipping name: Not a hazardous material with respect to transportation regulations.
14.3. Transport hazard class(es): Not a hazardous material with respect to transportation regulations.
14.4. Packing group: -

Other applicable information (marine transport)

Not restricted

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number:** Not a hazardous material with respect to transportation regulations.
14.2. UN proper shipping name: Not a hazardous material with respect to transportation regulations.
14.3. Transport hazard class(es): Not a hazardous material with respect to transportation regulations.
14.4. Packing group: -

Other applicable information (air transport)

Not restricted

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Personal protection equipment: see section 8

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

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28

2010/75/EU (VOC): 0,0

2004/42/EC (VOC): 0,0

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Information according to 2012/18/EU
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:

Observe employment restrictions under the Maternity Protection Directive
(92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,3,4,7,9,15,16.

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan),
ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

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

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

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

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

Repr. - Reproduktionstoxizität

Asp. Tox. - Aspirationstoxizität

Acute Tox. - Akute Toxizität

Aquatic Acute - Akute aquatische Toxizität

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Aquatic Chronic - Chronische aquatische Toxizität
 Eye Dam. - Augenschaden/-reizung
 Eye Irrit. - Augenreizung
 Skin Corr. - Ätzwirkung auf die Haut
 Skin Irrit. - Hautreizung
 Skin Sens. - Hautallergen
 Resp. Sens. - Inhalationsallergen
 STOT SE - Spezifische Zielorgan-Toxizität - einmalige Exposition
 STOT RE - Spezifische Zielorgan-Toxizität - wiederholte Exposition
 VOC - Flüchtige organische Verbindungen

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)