

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**MECUT-MMKS-UNIVERSAL STEEL+ALU+COPPER "Easy Clean" Art. 60 1164**

Revision date: 01.01.2024

Product code: 293

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

MECUT-MMKS-UNIVERSAL STEEL+ALU+COPPER "Easy Clean" Art. 60 1164

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

Cutting oil

**1.3. Details of the supplier of the safety data sheet**

Company name: Karnasch Professional Tools GmbH  
Street: Theodor-Heuss-Anlage 12  
Place: D-68165 Mannheim  
Telephone: +49 (0) 6203 / 4039 - 0  
E-mail: info@atakarnasch.com  
Contact person: Volker Mayer, Sascha Riedel  
Internet: www.karnasch.tools  
Responsible Department: Volker Mayer, Sascha Riedel:  
Tel: 06203 / 4039 - 0

**1.4. Emergency telephone number:**

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

**Further Information**

Reserved for industrial and professional use.

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

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Additional advice on labelling**

No marking required according to 1999/45/EC, appendix V B, No. 9.

**2.3. Other hazards**

Avoid release to the environment.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

High slip hazard because of leaking or spilled product.

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

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

**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. First aider:

Pay attention to self-protection!

Symptoms can occur only after several hours.

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**After inhalation**

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

**After contact with skin**

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Seek medical attention if problems persist.

**After contact with eyes**

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**

Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water fog. Extinguishing powder. Carbon dioxide. Foam.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated:

Carbon dioxide (CO<sub>2</sub>).

Carbon monoxide

Nitrogen oxides (NO<sub>x</sub>).

**5.3. Advice for firefighters**

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Wear personal protection equipment. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

**For non-emergency personnel**

Special danger of slipping by leaking/spilling product.

**For emergency responders**

Self-protection of the first aider Remove affected person from the danger area and lay down. Do not leave affected person unattended. Remove all sources of ignition. Use appropriate respiratory protection.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed containers for disposal.

**6.3. Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Clean contaminated articles and floor according to the environmental legislation.

Clean with detergents. Avoid solvent cleaners.

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**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**

Avoid oil mist  
Use only in well-ventilated areas.  
When using do not eat, drink or smoke.

**Further information on handling**

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

**Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.  
Maximum period of storage (time): 1

**Further information on storage conditions**

Protect from sunlight. Store in a well-ventilated place.

**7.3. Specific end use(s)**

Observe technical data sheet.  
Reserved for industrial and professional use.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	
		3	7.6		STEL (15 min)	
111-42-2	Diethanolamine (Inhalable Fraction and Vapour)	0.2	1		TWA (8 h)	
107-41-5	Hexylene glycol	25	125		STEL (15 min)	
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	
102-71-6	Triethanolamine	-	5		TWA (8 h)	

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## DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
57-55-6	1,2-propylene glycol (1,2-propanediol)	1,2-propylene glycol (1,2-propanediol)		
Worker DNEL, long-term		inhalation	systemic	168 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	85 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	213 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	10 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	50 mg/m <sup>3</sup>
102-71-6	Triethanolamin			
Worker DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	7,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	0,4 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	local	2,66 mg/person/day
Consumer DNEL, long-term		oral	systemic	3,3 mg/kg bw/day
107-41-5	2-methylpentane-2,4-diol			
Worker DNEL, long-term		inhalation	systemic	44,43 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	49 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	63 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	7,83 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	25 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	49 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	22,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,25 mg/kg bw/day
141-43-5	2-aminoethanol; ethanolamine			
Worker DNEL, long-term		inhalation	systemic	1 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,51 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,18 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,28 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	1,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,5 mg/kg bw/day
111-42-2	2,2'-iminodiethanol; diethanolamine			
Worker DNEL, long-term		inhalation	systemic	0,75 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	0,125 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,5 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,125 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,130 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0,07 mg/kg bw/day

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Consumer DNEL, long-term	oral	systemic	0,06 mg/kg bw/day
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## PNEC values

CAS No	Substance	
Environmental compartment		Value
57-55-6	1,2-propylene glycol (1,2-propanediol)	1,2-propylene glycol (1,2-propanediol)
Freshwater		260 mg/l
Marine water		26 mg/l
Freshwater sediment		572 mg/kg
Marine sediment		57,2 mg/kg
Soil		50 mg/kg
102-71-6	Triethanolamin	
Freshwater		0,32 mg/l
Marine water		0,32 mg/l
Freshwater sediment		1,7 mg/kg
Marine sediment		0,17 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,151 mg/kg
107-41-5	2-methylpentane-2,4-diol	
Freshwater		0,429 mg/l
Marine water		0,043 mg/l
Freshwater sediment		1,59 mg/kg
Marine sediment		0,159 mg/kg
Micro-organisms in sewage treatment plants (STP)		20 mg/l
Soil		0,066 mg/kg
141-43-5	2-aminoethanol; ethanolamine	
Freshwater		0,07 mg/l
Marine water		0,007 mg/l
Freshwater sediment		0,375 mg/kg
Marine sediment		0,036 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		1,29 mg/kg
111-42-2	2,2'-iminodiethanol; diethanolamine	
Freshwater		0,021 mg/l
Marine water		0,002 mg/l
Freshwater sediment		0,092 mg/kg
Marine sediment		0,0092 mg/kg
Soil		1,63 mg/kg

## Additional advice on limit values

Exposure limit values: no restriction.

## 8.2. Exposure controls

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**Appropriate engineering controls**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Eye/face protection**

EN 166

**Hand protection**

Protect skin by using skin protective cream.  
Wash hands before breaks and after work.

**Skin protection**

Chemical resistant safety shoes. Take off immediately all contaminated clothing.  
Thorough skin-cleansing after handling the product. Set out skin protection guidelines.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	light yellow
Odour:	characteristic

**Test method**

pH-Value (at 20 °C):	8,5
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**Changes in the physical state**

Boiling point or initial boiling point and boiling range:	not determined
Flash point:	>180 °C DIN ISO 2592
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,01 g/cm³ EN ISO 12185
Viscosity / kinematic: (at 40 °C)	8,4 mm²/s DIN 51562

**9.2. Other information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No known hazardous reactions.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

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**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 hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

There are no data available on the preparation/mixture itself.

Data apply to the main component.

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

**Irritation and corrosivity**

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

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

Irritant effect on the eye: none

Irritant effect on the skin: none

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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.

**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).

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**SECTION 12: Ecological information****12.1. Toxicity**

The statement is derived from the properties of the components.

**12.2. Persistence and degradability**

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Product is not easily biodegradable.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

in delivery condition: liquid

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Avoid release to the environment.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of contents/container to an appropriate recycling or disposal facility. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Non-contaminated packages may be recycled.

**List of Wastes Code - residues/unused products**

130899 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); oil wastes not otherwise specified; wastes not otherwise specified; hazardous waste

**List of Wastes Code - contaminated packaging**

120109 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; machining emulsions and solutions free of halogens; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:**

No dangerous good in sense of these transport regulations.

**14.2. UN proper shipping name:**

No dangerous good in sense of these transport regulations.

**14.3. Transport hazard class(es):**

No dangerous good in sense of these transport regulations.

**14.4. Packing group:**

No dangerous good in sense of these transport regulations.

**Inland waterways transport (ADN)****14.1. UN number:**

No dangerous good in sense of these transport regulations.

**14.2. UN proper shipping name:**

No dangerous good in sense of these transport regulations.

**14.3. Transport hazard class(es):**

No dangerous good in sense of these transport regulations.

**14.4. Packing group:**

No dangerous good in sense of these transport regulations.

**Marine transport (IMDG)****14.1. UN number:**

No dangerous good in sense of these transport regulations.

**14.2. UN proper shipping name:**

No dangerous good in sense of these transport regulations.

**14.3. Transport hazard class(es):**

No dangerous good in sense of these transport regulations.



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**14.4. Packing group:** -**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:** No dangerous good in sense of these transport regulations.**14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**14.4. Packing group:** -**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Personal protection equipment: see section 8

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

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 75

Directive 2010/75/EU on industrial emissions: &lt; 1,0 %

Directive 2004/42/EC on VOC in paints and varnishes: &lt; 1,0%

**Additional information**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**National regulatory information**

Water hazard class (D): 1 - slightly 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): 1,2,4,6,7,11,12,13,15,16.

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%

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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

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

Abkürzungen und Akronyme siehe Verzeichnis unter <http://abk.esdscom.eu>

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