

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**MECUTFOAM Art.-Nr. 60 1152**

Revision date: 01.01.2021

Product code: 242SP

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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**

Cutting oil

**Uses advised against**

No information available.

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

Company name:	Karnasch Professional Tools GmbH	
Street:	Siemensstr. 1	
Place:	D-68542 Heddeshheim	
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 Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes serious eye irritation.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Alkylpolyglycoethercarbonic acid (CAS: 57635-48-0)

**Signal word:** Danger**Pictograms:****Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.

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**Precautionary statements**

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves//eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410	Protect from sunlight.
P412	Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to hazardous or special waste.

**Special labelling of certain mixtures**

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

**Additional advice on labelling**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**2.3. Other hazards**

No information available.

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

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
115-10-6	dimethyl ether			15 - < 20 %
	204-065-8	603-019-00-8	01-2119472128-37	
	Flam. Gas 1; H220			
57635-48-0	Alkylpolyglykoethercarbonsäure (Polymer)			2.5 - < 5 %
	611-563-2			
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
107-41-5	2-methylpentane-2,4-diol			1 - < 2.5 %
	203-489-0	603-053-00-3	01-2119539582-35	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
110-97-4	1,1'-iminodipropan-2-ol, di-isopropanolamine			1 - < 2.5 %
	203-820-9	603-083-00-7	01-2119475444-34	
	Eye Irrit. 2; H319			

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

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

Move victim to fresh air. Put victim at rest and keep warm. Do not leave affected person unattended.

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**After inhalation**

Provide fresh air. Seek medical attention if problems persist.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap.

Generally the product does not irritate the skin.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Call a physician immediately.

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

No data available

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

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

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Atomized water.

Use alcohol resistant foam. for extinction.

**Unsuitable extinguishing media**

High power water jet.

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

Heating causes rise in pressure with risk of bursting.

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers.

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

Wear personal protection equipment. Keep away from unprotected people. Keep upwind. Provide adequate ventilation. High slip hazard because of leaking or spilled product. Avoid contact with skin and eyes.

Remove all sources of ignition.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Provide adequate ventilation. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**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**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Handle and open container with care. Avoid contact with skin and eyes.

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**Advice on protection against fire and explosion**

Remove all sources of ignition. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on naked flames or any incandescent material.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep in a cool, well-ventilated place.

storage temperature: 15 - 35 °C, Do not store at temperatures over: 50 °C

Official regulations for the storage of compressed gas containers are to be observed

**Hints on joint storage**

Do not store together with: Oxidizing agents.

Maximum period of storage (time): 2 years

**Further information on storage conditions**

Store in a cool dry place. Protect from sunlight. Store in a well-ventilated place. Protect against: heat.

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

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
107-41-5	2-Methylpentane-2,4-diol	25	123		TWA (8 h)	WEL
		25	123		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
57-55-6	1,2-Propylenglykol (1,2-Propandiol)1,2-Propylenglykol (1,2-Propandiol)			
	Worker DNEL, long-term	inhalation	systemic	163 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>

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**PNEC values**

CAS No	Substance	
Environmental compartment		Value
57-55-6	1,2-Propylenglykol (1,2-Propandiol)1,2-Propylenglykol (1,2-Propandiol)	
Freshwater		260 mg/l
Marine water		26 mg/l
Freshwater sediment		572 mg/kg
Marine sediment		57,2 mg/kg
Soil		50 mg/kg

**8.2. Exposure controls**



**Protective and hygiene measures**

Wash hands before breaks and after work. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

**Eye/face protection**

Wear safety glasses or full face shield if splashes are likely to occur. Approved to EU Standard EN166.

**Hand protection**

Wear protective gloves if advisable under safety aspects. 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) Tested protective gloves are to be worn: Nitrile. EN ISO 374  
Thickness of glove material: > 480 min / 0,4mm

**Skin protection**

Only wear fitting, comfortable and clean protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state: Aerosol  
Colour: light yellow  
Odour: characteristic

pH-Value (at 20 °C): 7-8

**Changes in the physical state**

Melting point: not determined  
Initial boiling point and boiling range: -24 °C  
Flash point: not applicable  
Lower explosion limits: 2,6 vol. %  
Upper explosion limits: 18,6 vol. %  
Ignition temperature: 235 °C

**Oxidizing properties**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not

**Test method**

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pierce or burn, even after use. Do not spray on naked flames or any incandescent material. Danger of bursting container.

Vapour pressure: 3500-5000 hPa  
(at 20 °C)

Density (at 20 °C): 0,965 g/cm<sup>3</sup> DIN 55990

Water solubility: completely miscible

**9.2. Other information**

Vapours are heavier than air and will spread at floor level.

**SECTION 10: Stability and reactivity**

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

In use may form flammable/explosive vapour-air mixture.

**10.4. Conditions to avoid**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Danger of bursting container.  
Heating causes rise in pressure with risk of bursting.

**10.5. Incompatible materials**

Avoid contact with oxidizing agents

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Pyrolysis products, toxic.

**Further information**

storage stability: min. 2 years

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
57635-48-0	Alkylpolyglykoethercarbonsäure (Polymer)				
	oral	LD50 >2000 mg/kg	Ratte		
107-41-5	2-methylpentane-2,4-diol				
	oral	LD50 3700 mg/kg	Rat		
	dermal	LD50 8000 mg/kg	Rabbit		
110-97-4	1,1'-iminodipropan-2-ol, di-isopropanolamine				
	oral	LD50 4765 mg/kg	Rat		

**Irritation and corrosivity**

Irritant effect on the skin: mild irritant. Identification is not obligatory. Please observe the information on the safety data sheet at all times.

Irritant effect on the eye: mild irritant.

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**SECTION 12: Ecological information**

**12.1. Toxicity**

Harmful to fish.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
57635-48-0	Alkylpolyglykoethercarbonsäure (Polymer)					
	Acute fish toxicity	LC50 9,1 mg/l	96 h	Zebraabärbling		OECD 203
	Acute algae toxicity	ErC50 > 200 mg/l	72 h	Grünalge		OECD 201
	Acute crustacea toxicity	EC50 28,2 mg/l	48 h	Großer Wasserfloh		OECD 202
	Acute bacteria toxicity	(620 mg/l)		Belebtschlamm		OECD 209
107-41-5	2-methylpentane-2,4-diol					
	Acute fish toxicity	LC50 8510 mg/l	96 h	Gambusia affinis		
	Acute crustacea toxicity	EC50 3200 mg/l	48 h	Daphnia magna		
	Acute bacteria toxicity	(> 100 mg/l)	0,5 h	Bacteria		
110-97-4	1,1'-iminodipropan-2-ol, di-isopropanolamine					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Goldorfe		
	Acute algae toxicity	ErC50 270 mg/l	72 h	Algae		
	Acute crustacea toxicity	EC50 277,7 mg/l	48 h	Daphnia magna		

**12.2. Persistence and degradability**

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
57635-48-0	Alkylpolyglykoethercarbonsäure (Polymer)			
	OECD 301E	73 %	28	
	leicht biologisch abbaubar			
107-41-5	2-methylpentane-2,4-diol			
	DOC gelöster org. Kohlenstoff	95%	28	

**12.3. Bioaccumulative potential**

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,1
107-41-5	2-methylpentane-2,4-diol	0,58
110-97-4	1,1'-iminodipropan-2-ol, di-isopropanolamine	-0,79

**12.4. Mobility in soil**

No information available.

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

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

**12.6. Other adverse effects**

Do not allow to enter into surface water or drains.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. The waste code has to be identified in agreement with the disposal company or the competent authority. Consult the appropriate local waste disposal expert about waste disposal. Remove according to the regulations.

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

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

**Contaminated packaging**

Water. Water (with cleaning agent). Dispose of this material and its container to hazardous or special waste collection point.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
 Hazard label: 2.1



Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Transport category: 2  
 Tunnel restriction code: D

**Other applicable information (land transport)**

Special provisions: 190 - 327 - 625  
 E0  
 Transport category: 2  
 Tunnel restriction code: D

**Marine transport (IMDG)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
 Hazard label: 2, see SP63



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Marine pollutant: •  
 Limited quantity: See SP277  
 EmS: F-D, S-U

**Other applicable information (marine transport)**

Special provisions: 63, 190, 277, 327, 959

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
 Hazard label: 2.1



Limited quantity Passenger: 30 kg G  
 IATA-packing instructions - Passenger: 203  
 IATA-max. quantity - Passenger: 75 kg  
 IATA-packing instructions - Cargo: 203  
 IATA-max. quantity - Cargo: 150 kg

**Other applicable information (air transport)**

E0  
 : Y203  
 150 kg

**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

**Other applicable information**

Transport as "limited quantity" according to chapter 3.4 ADR/RID.

**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 40

2004/42/EC (VOC): 38,4% (373 g/L)  
 Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:  
Alkylpolyglykolethercarbonsäure (Polymer)

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,5,8,12,13,14,15,16.  
AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan),  
ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

**Abbreviations and acronyms**

ADR: Accord européen sur le transport 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 Harmonized 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  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

**Relevant H and EUH statements (number and full text)**

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

**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.

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