

(10935)

Kühlflüssigkeit MG-12

Revision date: 03.03.2009 / 12.07.2012 Version: 2 Date of print: 11.03.2013



**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

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

**1.1. Product identifiers**

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

Use of the substance/ preparation: coolant

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

Supplier (manufacturer/importer/  
downstream user/distributor): Jost Chemicals GmbH

Gottlieb-Daimler-Str. 10  
69514 Laudenbach

Telephone: 06201-42810

Telefax: 06201-45590

E-mail (competent person): info@jost-chemicals.de www.jost-chemicals.de

Dept. responsible for information: R&D

Information telephone: 0049-(0)6201-42810

**1.4. Emergency telephone number**

Dept. responsible for information: R&D (Mo - Fr. 08.00 - 16.00 Uhr)

Emergency telephone: 0049-(0)6201-42810

APPROVED MATERIAL

APR 01 2013

MSDS # 10935

APPROVED BY *[Signature]*

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification according to Directive 67/548/EEC or 1999/45/EC:

Harmful if swallowed.

**2.2. Label elements**

Labelling (67/548/EEC or 1999/45/EC):

Hazard symbol(s) and hazard identifier(s) for dangerous materials and preparations:

Xn



**R phrases:**

R phrases	
R22	Harmful if swallowed.

**S-phrases:**

S-phrases	
S23.g	Do not breathe gas/vapour/aerosol.
S24	Avoid contact with skin.
S3	Keep in a cool place.
S36/37	Wear suitable protective clothing and gloves.
S53	Avoid exposure - obtain special instructions before use.
S60	This material and its container must be disposed of as hazardous waste.

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**Labelling (CLP)****Hazard statements:**

Hazard statements:	
H412	Harmful to aquatic life with long lasting effects.

**Safety precautions:**

Safety precautions:	
P273	Avoid release to the environment.
P501	Dispose of contents/container to ....

**2.3. Other hazards****SECTION 3: Composition / Information on Ingredients****Chemical characterization (preparation):**

organic waterbased coolant with dioles

**3.2. Mixtures****Hazardous ingredients:**

CAS No.	EC No	Chemical name/ REACH registration No.	of (%)	up to (%)	Unit/ Content	Hazard symbol(s)	R phrases	INDEX no.
107-21-1	203-473-3	Ethylenglycol 02-2119752517-33-0000	20	40	% by weight	Xn	22	603-027-00-1

Full text of R-phrases: see section 16.

**Labelling (CLP):**

CAS No.	EC No	Chemical name/ REACH registration No.	Hazard pictograms	Signal word	Hazard statements
107-21-1	203-473-3	Ethylenglycol 02-2119752517-33-0000	GHS07	Warning	302

Full text of H-phrases: see section 16.

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

Remove affected person from the danger area and lay down. In case of irregular breathing or respiratory arrest provide artificial respiration. Take off immediately all contaminated clothing. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure. Consult physician immediately.

**After inhalation:**

Provide fresh air. In case of breathing difficulties administer oxygen. Consult physician immediately.

**In case of skin contact:**

After contact with skin, wash immediately with plenty of water and soap.

IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

**In case of eye contact:**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion:**

Induce vomiting when the affected person is not unconscious. Rinse mouth immediately and drink plenty of water. Consult physician immediately.

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

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No information available.

**4.3. Indication of any immediate medical attention and special treatment needed****Information to physician:**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media:**Water mist Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Foam.**Extinguishing media which must not be used for safety reasons:**

High power water jet.

**5.2. Special hazards arising from the substance or mixture****Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:**Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:  
Pyrolysis products, toxic.**5.3. Advice for firefighters****Additional information:**

Kontaminiertes Löschwasser getrennt sammeln. Nicht in die Kanalisation gelangen lassen.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel****Personal precautions:**

Wear personal protection equipment. Keep unprotected people away and stay on the upwind side. Provide adequate ventilation. Special danger of slipping by leaking/spilling product.

**6.1.2. For emergency responders****6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Avoid generation of dust. Wash with plenty of water.

**6.4. Reference to other sections****SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advices on safe handling:**

Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid exposure - obtain special instructions before use.

**Precautions against fire and explosion:**

Usual measures for fire prevention.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storerooms and containers:**

No special technical protective measures are necessary. Keep/Store only in original container. Keep only in the original container in a cool, well-ventilated place. Keep in a cool place.

**Hints on joint storage:**

Do not store together with: Oxidising agent. Keep away from food, drink and animal feeding stuffs.

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

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

Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

Occupational exposure limit values:

CAS No.	Chemical name	AGW (DE)	Unit	ppm	Peak limitation	Remark
107-21-1	ethane-1,2-diol	26	mg/m <sup>3</sup>	10	2(I)	DFG, H, Y

**8.2. Exposure controls****8.2.1. Appropriate engineering controls****8.2.2. Personal protective equipment**

**Respiratory protection:** With correct and proper use, and under normal conditions, breathing protection is not required.  
Do not breathe dust.

**Hand protection:** Tested protective gloves must be worn. Wear suitable protective clothing and gloves.

**Eye protection:** Tightly sealed safety glasses.

**Body protection:** For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only wear fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection. Wear suitable protective clothing and gloves.

Avoid contact with skin.

**General protection and hygiene measures:**

Mindeststandards für Schutzmaßnahmen beim Umgang mit Arbeitsstoffen sind in der TRGS 500 aufgeführt. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

**8.2.3. Environmental exposure controls:****SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Physical state:** liquid  
**Colour:** transparent  
**Odour:** characteristic

**Important health, safety and environmental information:**

		Unit	Method
pH:	6.4 - 6.6		
Boiling temperature / boiling range:	>100	°C	
Flash point (°C):	>111	°C	
Density:	1.03 - 1.05	g/cm <sup>3</sup> at °C 20	

**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

Oxidising agent.

**10.4. Conditions to avoid**

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**10.5. Incompatible materials**

Oxidising agent. Reducing agent.

**10.6. Hazardous decomposition products**

Oxidising agent.

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

CAS No.	Chemical name	LD50: oral	Unit	Species	LD50: dermal	Unit	Species	LC50: Inhalat iv	Unit	Species
107-21-1	ethane-1,2-diol	4000	mg/kg	Ratte						

**Irritant and corrosive effects:**

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: Not an irritant.

Irritant effect on the respiratory tract: Not an irritant.

**Sensitisation:**

not sensitising.

**Repeated dose toxicity:**

Es liegen keine Informationen vor.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

No indications of human carcinogenicity exist.

No indications of human reproductive toxicity exist.

No indications of human germ cell mutagenicity exist.

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

No information available.

**Terrestrial toxicity:**

No information available.

**Effects in sewage plants:**

No information available.

**12.2. Persistence and degradability****Method:**

No information available.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

CAS No.	Chemical name	Bioaccumulative potential
107-21-1	ethane-1,2-diol	No information available.

**12.4. Mobility in soil**

No information available.

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

This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects****SECTION 13: Disposal considerations****13.1. Waste treatment methods****Recommendation:**

Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste. This material and its container must be disposed of as hazardous waste.

**Contaminated packaging:****Recommendation:**

Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste. This material and its container must be disposed of as hazardous waste.

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

**Remark:** No dangerous good in sense of this transport regulation.

**14.2. Inland waterway craft (ADN/ADNR)**

**Remark:** No dangerous good in sense of this transport regulation.

**14.3. Sea transport (IMDG)**

**Remark:** No dangerous good in sense of this transport regulation.

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

**Remark:** No dangerous good in sense of this transport regulation.

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

Unterliegt nicht der StörfallV.

**Water Hazard Class:** 1

**15.2. Chemical Safety Assessment****SECTION 16: Other information****Data sources:**

Data arise from reference works and literature.

**Further remarks:**

R & D

**E-mail (competent person):**

info@jost-chemicals.de

**Relevant R- and H-phrases (Number and full text):**

R phrases	
R22	Harmful if swallowed.

  

Hazard statements	
H302	Harmful if swallowed.