

**MEYLE Antifreeze AN 13**

Print date: 11.06.2015

MEYLE no. 014 016 9600/3/4

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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**

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

Company name:	Wulf Gaertner Autoparts AG	
Street:	Merkurring 111	
Place:	D-22143 Hamburg	
Telephone:	+49 40 67506 510	Telefax: +49 40 67506 506
e-mail:	contact@meyle.com	
Internet:	www.meyle.com	
Responsible Department:	Giftnotruf Göttingen	

**1.4. Emergency telephone number:** +49 (0)551 19 24 0 (24h)

**SECTION 2: Hazards identification**

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

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

Indications of danger: Xn - Harmful  
R phrases:  
Harmful if swallowed.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard categories:  
Acute toxicity: Acute Tox. 4  
Hazard Statements:  
Harmful if swallowed.

**2.2. Label elements**

**Hazardous components which must be listed on the label**  
ethanediol, ethylene glycol

Signal word: Warning  
Pictograms: GHS07



**Hazard statements**

Harmful if swallowed.

**Precautionary statements**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
Rinse mouth.

**2.3. Other hazards**

Following inhalation: Vapour and mist concentrations above the allowable levels or unusually high

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concentrations may cause irritation to the nose and throat as well as headache, nausea and drowsiness.  
After skin contact: Brief contact with the product may cause slight skin irritation. Prolonged contact (e.g. through soaked clothing) may result in serious skin irritation with symptoms such as redness and swelling.  
Following eye contact: Conjunctival redness.  
after ingestion: Oral ingestion of small amounts causes kidney damage.  
Caution if victim vomits: Risk of aspiration!

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
203-473-3	ethanediol, ethylene glycol	
107-21-1	Xn - Harmful R22	60-100 %
603-027-00-1	Acute Tox. 4; H302	
243-283-8	2-ethylhexanoic acid sodium salt	1-4,99 %
	Repr. Cat. 3 R63	
	Skin Irrit. 3; H316	

Full text of R-, H- and EUH-phrases: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Change contaminated clothing.

**After inhalation**

Provide fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician immediately.

**After contact with skin**

Wash with plenty of water. Change contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Medical treatment necessary. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect).

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

First Aid, decontamination, treatment of symptoms. No specific antidote known.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

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**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. Dry extinguishing powder. Foam.

**Unsuitable extinguishing media**

High power water jet.

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

The product itself does not burn. In case of fire may be liberated: aerosol or mist generation.  
Gas/vapours, harmful.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Dispose of waste according to applicable legislation.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Use personal protective equipment as required. Use appropriate respiratory protection.

**6.2. Environmental precautions**

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

**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). Treat the recovered material as prescribed in the section on waste disposal. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. No special measures required when used in accordance with the instructions.

**Advice on protection against fire and explosion**

Take precautionary measures against static discharges.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep container tightly closed in a cool place.

**Advice on storage compatibility**

Do not store together with: Oxidizing agents.

Do not store together with: Food and fodder

**Further information on storage conditions**

Keep away from heat.

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

**8.1. Control parameters**

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**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

**8.2. Exposure controls**

**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink. Wear suitable protective clothing and gloves.

**Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Wear protective gloves. (EN 374 Butyl rubber. NBR (Nitrile rubber).)

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. (particulates filter device (DIN EN 143).)

**SECTION 9: Physical and chemical properties**

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

Physical state: liquid  
Colour: red  
Odour: characteristic

pH-Value: ~8,6 **Test method** ASTM D1287

**Changes in the physical state**

Initial boiling point and boiling range: >170 °C ASTM D 1120

**Flammability**

Solid: No data available  
Gas: No data available

Lower explosion limits: No data available

Upper explosion limits: No data available

Ignition temperature: >200 °C DIN 51794

Density (at 20 °C): ~1,14 g/cm<sup>3</sup> DIN 51757

Water solubility: completely miscible

Viscosity / kinematic: >22 mm<sup>2</sup>/s DIN 51562  
(at 20 °C)

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

This product is stable under normal conditions. Hazardous reactions are unlikely.

**10.2. Chemical stability**

This product is stable under normal conditions. Hazardous reactions are unlikely.

**10.3. Possibility of hazardous reactions**

This product is stable under normal conditions. Hazardous reactions are unlikely.

**10.5. Incompatible materials**

Oxidizing agents, strong. Strong acid

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

**Further information**

none

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Acute toxicity, dermal.

**ATEmix calculated**

ATE (oral) 714,3 mg/kg

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
107-21-1	ethanediol, ethylene glycol				
	oral	ATE	500 mg/kg		
	dermal	LD50	10600 mg/kg	Rabbit	GESTIS

**Irritation and corrosivity**

Frequently or prolonged contact with skin may cause dermal irritation.

**Sensitising effects**

not determined

**Severe effects after repeated or prolonged exposure**

Frequently or prolonged contact with skin may cause dermal irritation.

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

Die Aussage ist von den Eigenschaften der Einzelkomponenten abgeleitet.

Angaben zu: Ethan-1,2-diol

Ein Risiko der Fruchtschädigung braucht bei Einhaltung des MAK-Wertes nicht befürchtet zu werden.

Gefahr der Hautresorption. Aus der Gesamtheit der vorliegenden Informationen ergeben sich keine

Hinweise auf eine krebserzeugende Wirkung.

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC). Erfahrungen am Menschen

Angaben zu: Ethan-1,2-diol

Experimentelle/berechnete Daten:

mittlere tödliche Dosis: 1,2 - 1,5 g/kg , oral, Erwachsene

Bewusstseinsstörungen, Schädigungen der Nieren, Schädigungen des Zentralnervensystems:

Die angegebenen Symptome/Diagnosen/Befunde können bei geringen Dosierungen auftreten.

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**Further information**

No special hazards known when the product is properly used and the precautionary measures indicated are observed.

**SECTION 12: Ecological information**

**12.2. Persistence and degradability**

According to EU criteria: expected to biodegrade fast The product basis (ethylene glycol) itself is readily biodegradable.

**12.3. Bioaccumulative potential**

Biological degradation: Yes, rapidly

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
107-21-1	ethanediol, ethylene glycol	-1,36

**Further information**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Dispose of waste according to applicable legislation. Send to a hazardous waste incinerator facility under observation of official regulations.

**Waste disposal number of waste from residues/unused products**

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing dangerous substances  
Classified as hazardous waste.

**Waste disposal number of used product**

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing dangerous substances  
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Water (with cleaning agent). Completely emptied packages can be recycled. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**Other applicable information (land transport)**

No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

**Other applicable information (inland waterways transport)**

No dangerous good in sense of this transport regulation.

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**Marine transport (IMDG)**

**Other applicable information (marine transport)**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO)**

**Other applicable information (air transport)**

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**SECTION 16: Other information**

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

Harmful if swallowed.

Possible risk of harm to the unborn child.

**Relevant H- and EUH-phrases (Number and full text)**

Harmful if swallowed.

Causes mild skin irritation.

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