



Antifreeze MPG

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 26-8-2011 Revision date: 10-11-2016 version: 2.3

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

1.1. Product identifier

Product form : Mixture
 Product name : Antifreeze MPG
 Product code : 88000A

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

1.2.1. Relevant identified uses

Main use category : Professional use
 Function or use category : Anti-freezing agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MPM International Oil Company
 Cyclotronweg 1
 2629 HN Delft - Nederland
 T +31 (0)15 2514030 - F +31 (0)15 2514031
info@mpmoil.nl - www.mpmoil.nl

1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Precautionary statements (CLP) : P501 - Dispose of contents/container to officially registered waste disposal company.
 EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

PBT: not relevant – no registration required
 vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
PROPYLENE GLYCOL	(CAS-No.) 57-55-6 (EC-No.) 200-338-0	80 - 98	Not classified
Sodium-2-ethylhexanoaat	(CAS-No.) 19766-89-3 (EC-No.) 243-283-8	0,1 - 3	Repr. 2, H361d

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- After inhalation : Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical attention.
- After skin contact : zeep Wash with plenty of water/.... If skin irritation occurs: Get medical advice/attention.
- After eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- After ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

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

No additional information 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 : powder, alcohol-resistant foam, water spray, carbon dioxide.
- Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Although this substance has flammability data, it is difficult to ignite in air and is classified as non-flammable. On heating/burning: release of (highly) toxic gases/vapours e.g.: carbon monoxide - carbon dioxide.

5.3. Advice for firefighters

- Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Use water spray/stream to protect personnel and to cool endangered containers. Do not allow water used to extinguish fire to enter drains or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Plug the leak, cut off the supply. Keep away from sources of ignition - No smoking.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Do not flush into surface water or sewer system. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Prevent spreading over great surfaces (e.g. by damming or installing oil booms).
- Methods for cleaning up : Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).

6.4. Reference to other sections

Information on personal protective equipment - see Chapter 8. Information on safe handling - see Section 7.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Never use pressure to empty container. Remove all sources of ignition. Take precautionary measures against static discharge during blending and transfer operations.
- Hygiene measures : When using do not eat, drink or smoke.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Information on mixed storage	: Keep in cool, well-ventilated place away from acids.
Storage area	: Keep container tightly closed in a cool, well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PROPYLENE GLYCOL (57-55-6)

United Kingdom	WEL TWA (mg/m ³)	474 mg/m ³
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Additional information : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

8.2. Exposure controls

Technical measures:

Ensure adequate ventilation of the storage area. Provide adequate ventilation.

Materials for protective clothing:

Suitable material: neoprene. nitrile rubber. PVC (Polyvinyl chloride).

Hand protection:

Wear suitable gloves. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Eye protection:

Safety glasses

Skin and body protection:

No special required clothing

Respiratory protection:

No personal breathing protective equipment is normally required

Environmental exposure controls:

Dispose of in accordance with relevant local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Hygroscopic. viscous.
Colour	: Fluorescent orange / red.
Odour	: Low.
Odour threshold	: No data available
pH	: ca 8,9
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: -18 °C
Boiling point	: 170 °C 760 mm Hg
Flash point	: 103 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 20°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1045 g/l 20°C
Solubility	: Miscible with: Water.

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Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No naked flames, sparks, and do not smoke. moisture.

10.5. Incompatible materials

Strong acid. Oxidizing substances.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (The danger was based on evaluation of data on components of the product.)

Antifreeze MPG	
LD50 oral rat	> 2000 mg/kg
Skin corrosion/irritation	: Not classified (The danger was based on evaluation of data on components of the product.) pH: ca 8,9
Additional information	: Repeated or prolonged skin contact may cause irritation
Serious eye damage/irritation	: Not classified (The danger was based on evaluation of data on components of the product.) pH: ca 8,9
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified (The danger was based on evaluation of data on components of the product.)
Carcinogenicity	: Not classified (The danger was based on evaluation of data on components of the product.)
Reproductive toxicity	: Not classified (The danger was based on evaluation of data on components of the product.)
STOT-single exposure	: Not classified (The danger was based on evaluation of data on components of the product.)
STOT-repeated exposure	: Not classified (The danger was based on evaluation of data on components of the product.)
Aspiration hazard	: Not classified (The danger was based on evaluation of data on components of the product.)
Potential adverse human health effects and symptoms	: Repeated administration of 2-ethylhexanoic acid (2-EXA) in the diet of rats had enlargement of the liver and higher enzyme levels as a result. Administration of 2-EXA to pregnant rats by gavage or in drinking water caused teratogenicity (birth defects) and delayed postnatal development of the offspring. 2-EXA impaired fertility in female rats. Intraperitoneal injection of sodium 2-ethylhexanoate in pregnant mice birth defects in offspring. Induced.

Antifreeze MPG	
LC50 fish 1	23800 mg/l 96H
LC50 other aquatic organisms 1	> 19000 mg/l ALGAE 72H
EC50 Daphnia 1	> 43500 mg/l 48H

SECTION 12: Ecological information

12.1. Toxicity

General : According to the criteria of the EC-classification and labelling "dangerous for the environment" (93/21/EEC) the material/product is not to be classified as dangerous to the environment.

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12.2. Persistence and degradability

Antifreeze MPG

Persistence and degradability	Is well eliminable from water.
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12.3. Bioaccumulative potential

Antifreeze MPG

Bioaccumulative potential	No additional information available.
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12.4. Mobility in soil

Antifreeze MPG

Soil	No data available.
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12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required

vPvB: not relevant – no registration required

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Waste disposal according to official state regulations.
Product/Packaging disposal recommendations	: Recycle the material as far as possible.
Waste disposal recommendations	: Remove to an authorized waste treatment plant.
Waste materials	: Waste disposal according to official state regulations.
European List of Waste (LoW) code	: 16 01 15 - antifreeze fluids other than those mentioned in 16 01 14

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name	
Not applicable	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable
Not applicable	Not applicable
14.4. Packing group	
Not applicable	Not applicable
14.5. Environmental hazards	
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No
No supplementary information available	

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

	Revision date	Modified	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
	Reason for no classification	Added	
3	Composition/information on ingredients	Modified	
5.2	Fire hazard	Modified	
7.1	Precautions for safe handling	Modified	
8.1	Additional information	Added	
8.2	Environmental exposure controls	Added	
8.2	Personal protective equipment	Removed	
9.1	Flash point	Added	
9.1	Colour	Modified	
9.1	Odour	Modified	
9.1	Boiling point	Modified	
9.1	Density	Modified	
10.3	Possibility of hazardous reactions	Added	
10.6	Hazardous decomposition products	Added	
11.1	Other information	Added	
11.1	ATE CLP (oral)	Modified	
13.1	Product/Packaging disposal recommendations	Added	
13.1	European List of Waste (LoW) code	Modified	

Full text of H- and EUH-statements:

Repr. 2	Reproductive toxicity, Category 2
H361d	Suspected of damaging the unborn child.
EUH210	Safety data sheet available on request.

SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product