



Antifreeze MPG

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 26-8-2011 Revision date: 22-10-2020 Supersedes: 10-11-2016 version: 2.5

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

1.1. Product identifier

Product form : Mixture
Trade name : Antifreeze MPG
Product code : 88000C

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 Delft - Nederland
T +31 (0)15 2514030 - F +31 (0)15 2514031
msds@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 an approved waste disposal plant.
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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
PROPYLENE GLYCOL	(CAS-No.) 57-55-6 (EC-No.) 200-338-0	30 – 50	Not classified
Sodium-2-ethylhexanoaat	(CAS-No.) 19766-89-3 (EC-No.) 243-283-8	1 – 2,5	Repr. 2, H361d

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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	: zeepp 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	: Dry chemical, CO2, dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: On exposure to high temperature, may decompose, releasing toxic vapours.
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5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Other information	: Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection. Use a water spray to cool exposed surfaces and to protect fire-fighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ventilate well.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing and gloves.
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6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing and gloves.
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13. Information on safe handling - see Section 7.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Take precautionary measures against static discharge during blending and transfer operations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Provide local exhaust or general room ventilation. Keep in a cool, well-ventilated place away from heat.
Incompatible products	: Strong acids. Oxidizing agent.
Information on mixed storage	: Keep in a cool, well-ventilated place away from acids.
Storage area	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a closed container. Keep in a cool, well-ventilated place.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PROPYLENE GLYCOL (57-55-6)

Germany	TRGS 910 Acceptable concentration notes	
Ireland	Local name	Propane-1,2-diol [Propylene glycol]
Ireland	OEL (8 hours ref) (mg/m ³)	470 mg/m ³ total (vapour and particulates) 10 mg/m ³ particulates
Ireland	OEL (8 hours ref) (ppm)	150 ppm total (vapour and particulates)
Ireland	Regulatory reference	Chemical Agents Code of Practice 2020
United Kingdom	Local name	Propane-1,2-diol
United Kingdom	WEL TWA (mg/m ³)	474 mg/m ³
United Kingdom	WEL TWA (ppm)	150 ppm total vapour and particulates
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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 good ventilation of the work station.

Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

Hand protection:

Wear suitable gloves resistant to chemical penetration

Eye protection:

Safety goggles

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. [In case of inadequate ventilation] wear respiratory protection.

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	: red.
Odour	: slight.
Odour threshold	: No data available
pH	: ca 8,9 50%
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: -38 °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

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Density	: 1023 g/l 20°C
Solubility	: water.
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

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

10.5. Incompatible materials

acids and bases. Oxidizing agent.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral rat	> 2000 mg/kg
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PROPYLENE GLYCOL (57-55-6)

LD50 oral rat	> 20000 mg/kg
LD50 dermal rat	> 20800 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight

Sodium-2-ethylhexanoat (19766-89-3)

LD50 oral rat	2043 mg/kg bodyweight OECD 401
LD50 dermal rat	> 2000 mg/kg bodyweight OECD 402

Skin corrosion/irritation	: Not classified (The danger was based on evaluation of data on components of the product.) pH: ca 8,9 50%
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 50%
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.)

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STOT-repeated exposure : Not classified (The danger was based on evaluation of data on components of the product.)

PROPYLENE GLYCOL (57-55-6)

NOAEL (subchronic, oral, animal/male, 90 days)	443 mg/kg bodyweight
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Sodium-2-ethylhexanoaat (19766-89-3)

NOAEL (oral, rat, 90 days)	≈ 300 mg/kg bodyweight EPA OTS 795.2600
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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 rat diet resulted in liver enlargement and higher enzyme levels. Administration of 2-EXA to pregnant rats by tube feeding or in drinking water had teratogenic effects (birth defects) and delayed postnatal development of the young. 2-EXA reduced the fertility of female rats. Intraperitoneal injection of sodium 2-ethylhexanoate in pregnant mice caused birth defects in the offspring.

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.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

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

PROPYLENE GLYCOL (57-55-6)

LC50 fish 1	51400 mg/l Pimephales promelas
LC50 fish 2	51600 mg/l Oncorhynchus mykiss
EC50 72h algae (1)	19300 mg/l Skeletonema costatum
EC50 72h algae (2)	24200 mg/l Pseudokirchneriella subcapitata
EC50 96h algae (1)	19100 mg/l Skeletonema costatum
EC50 96h algae (2)	19000 mg/l Pseudokirchneriella subcapitata

Sodium-2-ethylhexanoaat (19766-89-3)

LC50 fish 1	> 100 mg/l Oryzias latipes
EC50 Daphnia 1	910 mg/l Daphnia magna
EC50 72h algae (1)	49,3 mg/l Desmodesmus subspicatus
LOEC (chronic)	63 mg/l Daphnia magna @21d
NOEC (chronic)	25 mg/l Daphnia magna @21d

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

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

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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)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Recycle the material as far as possible.
Waste disposal recommendations	: Remove to an authorized waste treatment plant.
Waste materials	: Conform to current legislation, regulations and orders.
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
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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

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.