



MPM Antifreeze MPG Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 26/08/2011 Revision date: 01/10/2025 Supersedes: 01/10/2025 version: 4.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: MPM Antifreeze MPG Concentrate
Product code	: 88000A
Type of product	: Anti-freezing agents
Product group	: Mixture

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

Relevant identified uses

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

1.3. Details of the supplier of the safety data sheet

Manufacturer

MPM International Oil Company BV
Cyclotronweg 1
NL 2629 HN Delft, Zuid Holland
Nederland
T +31 (0)15 2514030 (08.00 - 17.00 GMT+1)
info@mpmoil.com, www.mpmoil.com

1.4. Emergency telephone number

No additional information available

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)	: P102 - Keep out of reach of children.
EUH-statements	: EUH210 - Safety data sheet available on request.
Extra phrases	: This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

2.3. Other hazards

The product does not meet the PBT and vPvB classification criteria

This mixture does not contain any substances that have been assessed as vPvB / PBT according to Regulation (EC) No. 1907/2006, Annex XIII.

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

MPM Antifreeze MPG Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients

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	≥ 80 – ≤ 98	Not classified
Sodium benzoate	CAS-No.: 532-32-1 EC-No.: 208-534-8 REACH-no: 01-2119460683-35	≥ 3 – < 5	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	: Remove the victim away from contaminated area. If unconscious, place in the recovery position and seek medical advice.
After inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
After skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash 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. Consult an ophthalmologist if irritation persists.
After ingestion	: Do NOT induce vomiting. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Get immediate medical advice/attention.

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

After inhalation	: Harmful if inhaled.
After skin contact	: May cause skin irritation / dermatitis.
After eye contact	: Causes eye irritation.
After ingestion	: Harmful if swallowed.

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

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray, powder, foam and CO ₂ . Fight larger fires with water spray 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.
Hazardous decomposition products in case of fire	: Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrogen oxides (NO _x).

5.3. Advice for firefighters

Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Cool containers / tanks with spray water if possible. Use a water spray to cool exposed surfaces and to protect fire-fighters.

MPM Antifreeze MPG Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate well. Use protective clothing. Mark out the contaminated area with signs and prevent access to unauthorized personnel.

For non-emergency personnel

Protective equipment : Wear suitable protective clothing and eye/face protection.

For emergency responders

Protective equipment : Wear suitable protective clothing and eye/face protection. Breathing apparatus.

6.2. Environmental precautions

Dilute with plenty of water. 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.

Other information : Provide adequate ventilation.

6.4. Reference to other sections

Information on safe handling - see Section 7. Information on personal protective equipment - see Chapter 8. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid aerosol formation.

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 : Ensure adequate ventilation, especially in confined areas. Store in tightly closed, leak-proof containers. Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep container tightly closed.

Incompatible products : Strong bases. Oxidizing agent.

Information on mixed storage : Keep in a cool, well-ventilated place away from acids.

Storage area : Keep in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs.

Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

7.3. Specific end use(s)

Anti-freezing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

PROPYLENE GLYCOL (57-55-6)

Ireland - Occupational Exposure Limits

Local name	Propane-1,2-diol [Propylene glycol]
------------	-------------------------------------

MPM Antifreeze MPG Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

PROPYLENE GLYCOL (57-55-6)

OEL (8 hours ref) (mg/m ³)	470 mg/m ³ total (vapour and particulates) 10 mg/m ³ particulates
OEL (8 hours ref) (ppm)	150 ppm total (vapour and particulates)
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024

8.2. Exposure controls

Appropriate engineering controls

Technical measures:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Gloves. Protective goggles.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

No special eye protection equipment recommended under normal conditions of use. Eye protection should only be necessary where hot liquid could be splashed or sprayed

Skin protection

Skin and body protection:

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

Hand protection:

protective gloves

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Red.
Appearance	: Hygroscopic.
Odour	: Slight.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: -32 °C Typical
Boiling point	: > 162 °C Typical
Flammability (solid, gas)	: Will burn if involved in a fire.
Lower explosion limit	: Not available
Upper explosion limit	: Not available

MPM Antifreeze MPG Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Flash point	: 103 °C Pensky-Martens closed cup test (estimated)
Auto-ignition temperature	: 700 (Propan -1,2 -diol)
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: In water, material soluble.
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1042 kg/m ³ @ 20 °C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Contact with incompatible materials.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (The danger was based on evaluation of data on components of the product.)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met.; The danger was based on evaluation of data on components of the product.)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met.; The danger was based on evaluation of data on components of the product.)

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 benzoate (532-32-1)	
LD50 oral rat	3450 mg/kg bodyweight 95% CL: 3150 - 3740
LD50 dermal rabbit	> 2000 mg/kg bodyweight

MPM Antifreeze MPG Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Sodium benzoate (532-32-1)	
LC50 Inhalation - Rat	> 12.2 mg/l/4h
ATE CLP (oral)	3450 mg/kg bodyweight
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met.)

Sodium benzoate (532-32-1)	
pH	≈ 8
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met.)

Sodium benzoate (532-32-1)	
pH	≈ 8
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met.)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met.)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met.)
STOT-repeated exposure	: Not classified

PROPYLENE GLYCOL (57-55-6)	
NOAEL (subchronic, oral, animal/male, 90 days)	443 mg/kg bodyweight

Sodium benzoate (532-32-1)	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight
NOAEL (dermal, rat/rabbit, 90 days)	> 2500 mg/kg bodyweight EPA OPP 82-2
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met.)

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %
--	--

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met.)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met.)

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 benzoate (532-32-1)	
LC50 fish 1	484 mg/l Pimephales promelas

MPM Antifreeze MPG Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Sodium benzoate (532-32-1)

EC50 72h - Algae [1]	> 30.5 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	10 mg/l Danio rerio @144h

12.2. Persistence and degradability

MPM Antifreeze MPG Concentrate

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

PROPYLENE GLYCOL (57-55-6)

Persistence and degradability	Rapidly degradable
-------------------------------	--------------------

Sodium benzoate (532-32-1)

Persistence and degradability	Rapidly degradable
-------------------------------	--------------------

12.3. Bioaccumulative potential

MPM Antifreeze MPG Concentrate

Bioaccumulative potential	No relevant information available.
---------------------------	------------------------------------

12.4. Mobility in soil

MPM Antifreeze MPG Concentrate

Soil	Prevent soil and water pollution.
------	-----------------------------------

12.5. Results of PBT and vPvB assessment

MPM Antifreeze MPG Concentrate

The product does not meet the PBT and vPvB classification criteria

This mixture does not contain any substances that have been assessed as vPvB / PBT according to Regulation (EC) No, 1907/2006, Annex XIII.

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The product does not contain any substances with endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Comply with local regulations for disposal.
Additional information : This material and its container must be disposed of in a safe way, and as per local legislation.
European List of Waste (LoW, EC 2000/532) : 16 01 14* - antifreeze fluids containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG

MPM Antifreeze MPG Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG
14.1. UN number or ID number	
Not regulated for transport	
14.2. UN proper shipping name	
Not regulated	Not regulated
14.3. Transport hazard class(es)	
Not regulated	Not regulated
14.4. Packing group	
Not regulated	Not regulated
14.5. Environmental hazards	
Not regulated	Not regulated
No supplementary information available	

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

MPM Antifreeze MPG Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Supersedes	Modified
	Revision date	Modified
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Removed
3	Composition/information on ingredients	Modified

Full text of H- and EUH-statements:	
EUH210	Safety data sheet available on request.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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.