

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 6-7-2022 Revision date: 22-6-2023 Supersedes: 11-8-2022 version: 1.1

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : MPM Antifreeze Premium Longlife BMW / Volvo Concentrate

UFI : CHQF-YQ3M-R289-N3AJ

Product code : 87000ABV

Type of product : Anti-freezing agents

Product group : Mixture

#### 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, Consumer use, Industrial use

Industrial/Professional use spec : Non-dispersive use

Used in closed systems
: Anti-freezing agents
: Anti-freezing agents

#### 1.2.2. Uses advised against

Use of the substance/mixture

Function or use category

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

info@mpmoil.nl - www.mpmoil.com

#### 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	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+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]

Acute toxicity (oral), Category 4 H302 Specific target organ toxicity – Repeated exposure, Category 2 H373

Full text of H- and EUH-statements: see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available.

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#### 2.2. Label elements

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

Hazard pictograms (CLP)





GHS07

GHS08

CLP Signal word : Warning
Contains : 1,2 ethanediol

Hazard statements (CLP) : H302 - Harmful if swallowed.

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure

(oral).

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.

P330 - Rinse mouth.

P102 - Keep out of reach of children.

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 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 is 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 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]
1,2 ethanediol	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816- 28	≥ 80 – ≤ 95	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Disodium sebacate	CAS-No.: 17265-14-4 EC-No.: 241-300-3 REACH-no: 01-2120762063- 61	≥ 2,5 – < 5	Eye Irrit. 2, H319
Methyl-1H-benzotriazole	CAS-No.: 29385-43-1 EC-No.: 249-596-6 REACH-no: 01-2119979081- 35	≥ 0,1 - ≤ 0,5	Acute Tox. 4 (Oral), H302 Repr. 2, H361d Aquatic Chronic 2, H411

Comments

: Contains a small amount of Bitrex (> 25 ppm), also known as Denatonium Benzoate. More information under section 11.

Full text of H- and EUH-statements: see section 16

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#### **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 ophtalmologist 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 CO2. 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 (CO2). Nitrogen oxides (NOx).

## 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.

## **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.

6.1.1. For non-emergency personnel

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

6.1.2. 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.

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## 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. Information on disposal - see Section 13

## **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

#### 8.1.1. National occupational exposure and biological limit values

1,2 ethanediol (107-21-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOELV TWA (mg/m³)	52 mg/m³	
IOELV TWA (ppm)	20 ppm	
EU - Binding Occupational Exposure Limit (BOEL)		
BOEL TWA	104 mg/m³ TGG 15 min.	
BOEL TWA [ppm]	40 ppm	

### 8.1.2. Recommended monitoring procedures

No additional information available.

#### 8.1.3. Air contaminants formed

No additional information available.

#### 8.1.4. DNEL and PNEC

No additional information available.

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#### 8.1.5. Control banding

No additional information available.

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Technical measures:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Protective goggles.

#### Personal protective equipment symbol(s):





### 8.2.2.1. 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

#### 8.2.2.2. Skin protection

#### Skin and body protection:

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

#### Hand protection:

protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available.

#### 8.2.3. 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 : Green.
Appearance : Hygroscopic.
Odour : Slight.
Odour threshold : Not available
Melting point : Not available
Freezing point : Not available

Boiling point : > 197,4 °C @ (CAS: 107-21-1, ethaandiol; ethyleenglycol)

Flammability : Not available

Explosive properties : Product is not explosive.

Oxidising properties : No oxidising properties.

Explosive limits : Not available
Lower explosion limit : Not available
Upper explosion limit : Not available

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Flash point : 111 °C @ (CAS: 107-21-1, ethaandiol; ethyleenglycol) Auto-ignition temperature : 398 °C @ (CAS: 107-21-1, ethaandiol; ethyleenglycol)

Decomposition temperature : Not available pH :  $\approx 8.7 \ @ \ 20^{\circ}\text{C}$  Viscosity, kinematic : Not determined.

Solubility : In water, material soluble.

Log Kow : Not available

Vapour pressure : 0,1 hPa(a) @ 25°C (CAS: 107-21-1, ethaandiol; ethyleenglycol)

Vapour pressure at 50°C : Not available

Density :  $\approx 1120 \text{ kg/m}^3 \otimes 20^{\circ}\text{C}$ 

: Not available Relative density Relative vapour density at 20°C Not available Not determined Particle size Particle size distribution : Not applicable : Not applicable Particle shape Particle aspect ratio : Not applicable Particle aggregation state : Not applicable Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness : Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available.

### 9.2.2. Other safety characteristics

Miscibility : water,acetone,alcohol

## **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) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met.)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met.)

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ATE CLP (oral)  1,2 ethanediol (107-21-1)  LD50 dermal				
LC50 Inhalation - Rat    Source   Sour	MPM Antifreeze Premium Longlife BMW / Volvo Concentrate			
LD50 dermal > 3500 mg/kg (Mouse)  LC50 Inhalation - Rat > 2,5 mg/l 6h  Disodium sebacate (17265-14-4)  LD50 oral rat > 5000 mg/kg bodyweight @ OECD Guideline 401  LD50 dermal rat > 2000 mg/kg bodyweight @ OECD Guideline 402  Methyl-1H-benzotriazole (29385-43-1)  ATE CLP (oral) 500 mg/kg bodyweight  Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.) ph: ≈ 8,7 @ 20°C  Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.) ph: ≈ 8,7 @ 20°C  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.)  STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)  STOT-repeated exposure : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	ATE CLP (oral)	526,316 mg/kg bodyweight		
Disodium sebacate (17265-14-4)  LD50 oral rat	1,2 ethanediol (107-21-1)			
Disodium sebacate (17265-14-4)  LD50 oral rat	LD50 dermal	> 3500 mg/kg (Mouse)		
LD50 oral rat    > 5000 mg/kg bodyweight @ OECD Guideline 401   D50 dermal rat   > 2000 mg/kg bodyweight @ OECD Guideline 402	LC50 Inhalation - Rat	> 2,5 mg/l 6h		
LD50 dermal rat       > 2000 mg/kg bodyweight @ OECD Guideline 402         Methyl-1H-benzotriazole (29385-43-1)         ATE CLP (oral)       500 mg/kg bodyweight         Skin corrosion/irritation       : Not classified (Based on available data, the classification criteria are not met.) pH: ≈ 8,7 @ 20°C         Serious eye damage/irritation       : Not classified (Based on available data, the classification criteria are not met.) pH: ≈ 8,7 @ 20°C         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       : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).         1,2 ethanediol (107-21-1)         STOT-repeated exposure         May cause damage to organs through prolonged or repeated exposure.         Aspiration hazard         My cause damage to organs through prolonged or repeated exposure.         Not	Disodium sebacate (17265-14-4)			
Methyl-1H-benzotriazole (29385-43-1)  ATE CLP (oral)  Skin corrosion/irritation  Skin classified (Based on available data, the classification criteria are not met.)  Skeproductive toxicity  Skin corrosion/irritation  Skin classified (Based on available data, the classification criteria are not met.)  Skin classified (Based on available data, the classification criteria are not met.)  Skin classified (Based on available data, the classification criteria are not met.)  Skin classified (Based on available data, the classification criteria are not met.)  May cause damage to organs through prolonged or repeated exposure  Skin corrosion/irritation  May cause damage to organs through prolonged or repeated exposure.  Skin corrosion/irritation  Skin cause damage to organs through prolonged or repeated exposure.  Skin corrosion/irritation  Skin cause damage to organs through prolonged or repeated exposure.  Skin corrosion/irritation  Skin cause damage to organs through prolonged or repeated exposure.  Skin corrosion/irritation  Skin cause damage to organs through prolonged or repeated exposure.  Skin corrosion/irritation  Skin cause damage to org	LD50 oral rat	> 5000 mg/kg bodyweight @ OECD Guideline 401		
ATE CLP (oral)  Skin corrosion/irritation  : Not classified (Based on available data, the classification criteria are not met.) pH: ≈ 8,7 @ 20°C  Serious eye damage/irritation  : Not classified (Based on available data, the classification criteria are not met.) pH: ≈ 8,7 @ 20°C  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 (Based on available data, the classification criteria are not met.)  May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).  1,2 ethanediol (107-21-1)  STOT-repeated exposure  May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard  : Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	LD50 dermal rat	> 2000 mg/kg bodyweight @ OECD Guideline 402		
Skin corrosion/irritation  : Not classified (Based on available data, the classification criteria are not met.) pH: ≈ 8,7 @ 20°C  Serious eye damage/irritation  : Not classified (Based on available data, the classification criteria are not met.) pH: ≈ 8,7 @ 20°C  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 (Based on available data, the classification criteria are not met.)  **May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).  **1,2 ethanediol (107-21-1)  **STOT-repeated exposure  May cause damage to organs through prolonged or repeated exposure.  **Aspiration hazard  : Not classified (Based on available data, the classification criteria are not met.)  **MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	Methyl-1H-benzotriazole (29385-43-1)			
pH: ≈ 8,7 @ 20°C  Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.) pH: ≈ 8,7 @ 20°C  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 : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).  1,2 ethanediol (107-21-1)  STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)  May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	ATE CLP (oral)	500 mg/kg bodyweight		
Serious eye damage/irritation  : Not classified (Based on available data, the classification criteria are not met.)  pH: ≈ 8,7 @ 20°C  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 (Based on available data, the classification criteria are not met.)  1,2 ethanediol (107-21-1)  STOT-repeated exposure  May cause damage to organs (kidneys) through prolonged or repeated exposure.  Aspiration hazard  : Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	Skin corrosion/irritation	· · · · · · · · · · · · · · · · · · ·		
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 : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).  1,2 ethanediol (107-21-1)  STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	Serious eye damage/irritation	: 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 : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).  1,2 ethanediol (107-21-1)  STOT-repeated exposure   May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	Respiratory or skin sensitisation	1 , 5		
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 : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).  1,2 ethanediol (107-21-1)  STOT-repeated exposure   May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	Germ cell mutagenicity	: 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 : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).  1,2 ethanediol (107-21-1)  STOT-repeated exposure   May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met.)		
STOT-repeated exposure : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).  1,2 ethanediol (107-21-1)  STOT-repeated exposure   May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)		
1,2 ethanediol (107-21-1)  STOT-repeated exposure  May cause damage to organs through prolonged or repeated exposure.  Aspiration hazard:  Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met.)		
STOT-repeated exposure  May cause damage to organs through prolonged or repeated exposure.  STOT-repeated exposure  Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).		
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)  MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	1,2 ethanediol (107-21-1)			
MPM Antifreeze Premium Longlife BMW / Volvo Concentrate	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
-	Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met.)		
Viscosity, kinematic Not determined.	MPM Antifreeze Premium Longlife BMW / Volvo Concentrate			
	Viscosity, kinematic	Not determined.		

#### 11.2. Information on other hazards

#### 11.2.1. 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 is 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 %

## 11.2.2. Other information

Other information

: The mixture contains a small amount of Bitrex, which is a bittering agent and is a general description of chemical additives that are added to dangerous products to give it a bitter taste, which creates a strong aversion and as such prevents accidental poisonings for young people in particular children and pets. There are a number of possible chemicals that can be used, but the best known is the Denatonium benzoate (CAS 3734-33-6).

## **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.)

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1,2 ethanediol (107-21-1)			
LC50 fish 1	72860 mg/l @96h Dikkop witvis ( Pimephales promelas )		
EC50 Daphnia 1	> 100 mg/l OECD 202 (Daphnia magna)		
EC50 96h - Algae [1]	6500 – 13000 mg/l (EPA 600/9-78-018)		
NOEC (chronic)	≥ 1000 mg/l Mysidopsis bahia (Duration: 23 d)		
NOEC chronic fish	15380 mg/l (EPA EPA 600/4-89/001 (7d), Pimephales promelas) semi-static		
NOEC chronic crustacea	8590 mg/l (EPA 600/4-89/001, Ceriodaphnia dubia)		
Disodium sebacate (17265-14-4)			
LC50 fish 1	> 100 mg/l @ EOCD Guideline 203, Danio rerio		
EC50 Daphnia 1	> 100 mg/l @ OECD Guideline 202, Daphnia magna		
NOEC chronic algae	3 mg/l @ ISO 10253, Skeletonrma costatum		
Methyl-1H-benzotriazole (29385-43-1)	Methyl-1H-benzotriazole (29385-43-1)		
LC50 fish 1	25,5 mg/l (Pimephales promelas)		
LC50 fish 2	65 mg/l (Brachydanio rerio)		
EC50 Daphnia 1	87,4 mg/l (Daphnia magna)		
EC50 Daphnia 2	8,58 mg/l (Daphnia magna)		
EC50 72h - Algae [1]	62 mg/l (Selenastrum capricomutum)		
ErC50 (algae)	75 mg/l @ OECD Guideline 201, Pseudokirchnerielle subcapitata		
NOEC chronic crustacea	184 mg/l @21DY (Daphnia magna)		

## 12.2. Persistence and degradability

MPM Antifreeze Premium Longlife BMW / Volvo Concentrate		
Persistence and degradability Readily biodegradable.		
1,2 ethanediol (107-21-1)		
Persistence and degradability	Readily biodegradable.	
Disodium sebacate (17265-14-4)		
Biodegradation 89 % @ 28d, OECD Guideline 306		

## 12.3. Bioaccumulative potential

MPM Antifreeze Premium Longlife BMW / Volvo Concentrate		
Bioaccumulative potential No relevant information available.		
1,2 ethanediol (107-21-1)		
Log Pow -1,36		
Disodium sebacate (17265-14-4)		
Log Pow -4,9 @ (20 °C, 7,8pH, OECD Guideline 105)		
Methyl-1H-benzotriazole (29385-43-1)		
Log Kow	1,71	

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## 12.4. Mobility in soil

MPM Antifreeze Premium Longlife BMW / Volvo Concentrate		
Soil Prevent soil and water pollution.		
Disodium sebacate (17265-14-4)		
Log Koc	2,429 @ 25°C, QSAR	

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

No additional information available.

#### 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 legislation (waste) : 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) code : 16 01 14\* - antifreeze fluids containing dangerous substances

## **SECTION 14: Transport information**

In accordance with ADR / IMDG

#### 14.1. UN number or ID number

UN-No. (IMDG) : Not regulated : Not regulated

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) : Not regulated

## 14.3. Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

## 14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated

#### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

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## 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

#### 15.1.1. EU-Regulations

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

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

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

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

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

#### 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			
Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Modified	
	PBT Comment	Added	
	Adverse effects on the environment caused by endocrine disrupting properties	Modified	
	vPvB comment	Modified	
10.1	Reactivity	Modified	
11.1	ATE CLP (oral)	Modified	
11.1	Reason for no classification	Modified	
11.1	Reason for no classification	Added	
11.1	Reason for no classification	Added	
12.3	Bioaccumulative potential	Added	
12.6	Other adverse effects	Modified	
13.1	Additional information	Added	
13.1	Regional legislation (waste)	Modified	

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Full text of H- and EUH-statements		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H319	Causes serious eye irritation.	
H361d	Suspected of damaging the unborn child	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, Category 2	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	

#### 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.