



# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 15-12-2016 Revision date: 8-8-2023 Supersedes: 4-1-2023 version: 4.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : TRIPLE QX Blue Ready Mixed Antifreeze-Coolant  
UFI : N7SF-Y0SJ-3V1Q-NC2Q  
Product code : TQX.131001  
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  
Use of the substance/mixture : Anti-freezing agents  
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

##### Manufacturer

MPM International Oil Company B.V.

Cyclotronweg 1

2629 HN Delft Delft - Nederland

T 0031 (0)15 2514030

[info@mpmoil.com](mailto:info@mpmoil.com) - [www.tripleqx.com](http://www.tripleqx.com)

E-mail address of competent person responsible for the SDS :

[pvhoom@mpmoil.nl](mailto:pvhoom@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	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]

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.

# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

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

### 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) :

P260 - Do not breathe vapours, mist.

P264 - Wash hands, forearms and face thoroughly after handling.

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

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 - Rinse mouth.

P102 - Keep out of reach of children.

### 2.3. Other hazards

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/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 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]
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	$\leq 50$	Not classified
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	$\geq 40 - \leq 47,5$	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	$< 1$	Eye Irrit. 2, H319

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

# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

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

### 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.

# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

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

### 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/m <sup>3</sup> )	52 mg/m <sup>3</sup>
IOELV TWA (ppm)	20 ppm
EU - Binding Occupational Exposure Limit (BOEL)	
BOEL TWA	104 mg/m <sup>3</sup> 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.

# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

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

### 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	: Blue.
Appearance	: Hygroscopic.
Odour	: Slight.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: -36
Boiling point	: Not available
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

# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

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

Flash point	: > 108 °C
Auto-ignition temperature	: Not available
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	: 1060 kg/m <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle size	: Not determined.
Particle size distribution	: Not applicable
Particle shape	: Not applicable
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

No additional information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 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

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
Acute toxicity (dermal)	: After contact with skin, wash immediately and thoroughly with water and soap
Acute toxicity (inhalation)	: Not classified

# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

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

TRIPLE QX Blue Ready Mixed Antifreeze-Coolant	
ATE CLP (oral)	500 mg/kg
1,2 ethanediol (107-21-1)	
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
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met.)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met.)
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 (Conclusive but not sufficient for classification. 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.)
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	
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 (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.)
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)

# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

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

1,2 ethanediol (107-21-1)	
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 @ EOCB Guideline 203, Danio rerio
EC50 Daphnia 1	> 100 mg/l @ OECD Guideline 202, Daphnia magna
NOEC chronic algae	3 mg/l @ ISO 10253, Skeletonma costatum

### 12.2. Persistence and degradability

TRIPLE QX Blue Ready Mixed Antifreeze-Coolant	
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

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)

### 12.4. Mobility in soil

TRIPLE QX Blue Ready Mixed Antifreeze-Coolant	
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

TRIPLE QX Blue Ready Mixed Antifreeze-Coolant	
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 : No additional information available.



# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

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

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

<b>ADR</b>	
Transport hazard class(es) (ADR)	: Not regulated

<b>IMDG</b>	
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

#### 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)

# TRIPLE QX Blue Ready Mixed Antifreeze-Coolant

## Safety Data Sheet

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

### 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
	Revision date	Modified	
	Supersedes	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
9.1	Density	Modified	
9.1	Flash point	Modified	

#### Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

#### Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
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.