



MPM Coolant Premium Longlife -40°C G12+ Ready to Use

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 01/03/2016 Revision date: 22/06/2023 Supersedes: 22/10/2020 version: 2.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: MPM Coolant Premium Longlife -40°C G12+ Ready to Use
UFI	: 53ST-GFXU-J204-KE6H
Product code	: 86000C
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, Consumer use, Industrial use
Use of the substance/mixture	: Anti-freezing agents
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

Country/Area	Organisation/Company	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)	

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

2.2. Label elements

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

Hazard pictograms (CLP)



CLP Signal word

: WARNING.

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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)	: P102 - Keep out of reach of children. P260 - Do not breathe dusts or mists. 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. P501 - Dispose of contents/container in accordance with local and national regulations.

2.3. Other hazards

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Sodium 4(or 5)-methyl-1H-benzotriazole (64665-57-2)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Sodium 4(or 5)-methyl-1H-benzotriazole (64665-57-2)

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 %

Component	
Substance(s) not 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	Sodium 4(or 5)-methyl-1H-benzotriazole (64665-57-2)

SECTION 3: Composition/information on ingredients

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	$\geq 42.5 - \leq 49$	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	$> 0.5 - \leq 1.5$	Eye Irrit. 2, H319
Sodium 4(or 5)-methyl-1H-benzotriazole	CAS-No.: 64665-57-2 EC-No.: 265-004-9	$> 0 - \leq 0.15$	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361d Aquatic Chronic 2, H411

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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

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 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 (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.

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.

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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

1,2 ethanediol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m ³)	52 mg/m ³
IOELV TWA (ppm)	20 ppm
EU - Binding Occupational Exposure Limit (BOEL)	
BOEL TWA	104 mg/m ³ TGG 15 min.
	40 ppm

8.2. Exposure controls

Appropriate engineering controls

Technical measures:

Ensure good ventilation of the work station.

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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	: Pink.
Appearance	: Hygroscopic.
Odour	: odourless.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: > -40 °C
Boiling point	: > 110 °C
Flammability (solid, gas)	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 105 °C (CAS 107-21-1)
Auto-ignition temperature	: Not determined.
Decomposition temperature	: Not available
pH	: 8.3 (7.5 – 9)
Viscosity, kinematic	: Not determined.
Viscosity, dynamic	: Not determined.
Solubility	: In water, material soluble.
Log Kow	: Not available
Vapour pressure	: @ 25°C (CAS: 107-21-1 Ethanediol)
Vapour pressure at 50°C	: 0.1 hPa
Density	: 1069 kg/m³
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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9.2. Other information

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)	1020.408 mg/kg bodyweight
1,2 ethanediol (107-21-1)	
LD50 dermal	> 3500 mg/kg (Mouse)
LC50 Inhalation - Rat	> 2.5 mg/l 6h
ATE CLP (oral)	500 mg/kg bodyweight
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
Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)	
ATE CLP (oral)	500 mg/kg bodyweight
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met.) pH: 8.3 (7.5 – 9)
1,2 ethanediol (107-21-1)	
pH	≈ 8.7
Serious eye damage/irritation	: Not classified pH: 8.3 (7.5 – 9)

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1,2 ethanediol (107-21-1)	
pH	≈ 8.7
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.

Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)	
NOAEL (oral, rat, 90 days)	≈ 150 mg/kg bodyweight OECD: 407
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met.)

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Viscosity, kinematic	Not determined.

1,2 ethanediol (107-21-1)	
Viscosity, kinematic	14.505 mm²/s

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 %
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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).
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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.)

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)

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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, Skeletonema costatum

Sodium 4(or 5)-methyl-1H-benzotriazole (64665-57-2)	
LC50 fish 1	180 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	8.58 mg/l OECD Guideline 202, freshwater

12.2. Persistence and degradability

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Persistence and degradability	Readily biodegradable.

1,2 ethanediol (107-21-1)	
Persistence and degradability	Readily biodegradable.

Disodium sebacate (17265-14-4)	
Persistence and degradability	Rapidly degradable
Biodegradation	89 % @ 28d, OECD Guideline 306

Sodium 4(or 5)-methyl-1H-benzotriazole (64665-57-2)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

MPM Coolant Premium Longlife -40°C G12+ Ready to Use	
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)

Sodium 4(or 5)-methyl-1H-benzotriazole (64665-57-2)	
Log Pow	1.087 @ 25°C, OECD Guideline 117

12.4. Mobility in soil

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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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Sodium 4(or 5)-methyl-1H-benzotriazole (64665-57-2)

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Component

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)
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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

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

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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)

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
	vPvB comment	Added
	Adverse effects on the environment caused by endocrine disrupting properties	Added
	Acute toxicity (oral) - comment	Added
	Acute toxicity (dermal) - comment	Added
1.1	Trade name	Modified
1.1	Product group	Added
3	Composition/information on ingredients	Modified
4.1	General	Added
4.1	After skin contact	Modified
4.1	After inhalation	Modified

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Indication of changes		
Section	Changed item	Comments
4.1	After ingestion	Modified
4.1	After eye contact	Modified
4.2	After skin contact	Added
4.2	After inhalation	Added
4.2	After ingestion	Added
4.2	After eye contact	Added
4.3	Treatment	Modified
5.1	Unsuitable extinguishing media	Modified
5.1	Suitable extinguishing media	Modified
5.2	Hazardous decomposition products in case of fire	Added
5.2	Fire hazard	Added
5.3	Other information	Modified
6.1	Protective equipment	Modified
6.1	General measures	Modified
6.2	Environmental precautions	Modified
6.3	Other information	Added
6.4	Reference to other sections (8, 13)	Modified
7.1	Precautions for safe handling	Modified
7.2	Packaging materials	Added
7.2	Storage conditions	Added
7.2	Incompatible products	Modified
7.2	Technical measures	Modified
7.2	Storage area	Modified
7.3	Specific end uses	Added
8.2	Environmental exposure controls	Added
8.2	Other information	Modified
8.2	Respiratory protection	Modified
8.2	Hand protection	Modified
8.2	Eye protection	Modified
9.1	pH	Modified
9.1	Viscosity, dynamic	Added
9.1	Viscosity, kinematic	Added
9.1	Freezing point	Added
9.1	Solubility	Modified
9.1	Flash point	Modified
9.1	Boiling point	Modified
9.1	Auto-ignition temperature	Modified

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Indication of changes		
Section	Changed item	Comments
9.1	Density	Modified
10.1	Reactivity	Added
10.4	Conditions to avoid	Modified
10.5	Incompatible materials	Modified
10.6	Hazardous decomposition products	Modified
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Additional information	Added
11.1	Reason for no classification	Added
11.1	ATE CLP (oral)	Modified
12.2	Persistence and degradability	Added
12.4	Soil	Modified
12.6	Other adverse effects	Added
13.1	Product/Packaging disposal recommendations	Added
13.1	Waste materials	Modified

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 Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
H411	Toxic to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

The classification complies with : ATP 12

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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.