

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 6-10-2010 Revision date: 23-7-2024 Supersedes: 15-12-2023 version: 8.0

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

#### **1.1. Product identifier**

Product form	: Mixture
Trade name	: MPM Compressor Oil 100
Product code	: 48000B
Type of product	: Other engine, gear and lubricating oils.
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	
Industrial/Professional use spec	

 Professional use,Consumer use,Industrial use
 Non-dispersive use Used in closed systems
 Lubricants and additives

Function or use category

## 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 BV Cyclotronweg 1 2629 HN Delft - Nederland T +31 (0)15 2514030 info@mpmoil.com - www.mpmoil.com

#### 1.4. Emergency telephone number

#### Emergency number

#### : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	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)	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+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]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 Full text of H- and EUH-statements: see section 16 H412

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#### Adverse physicochemical, human health and environmental effects

#### No additional information available

2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
CLP Signal word	:•
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P102 - Keep out of reach of children.
	P273 - Avoid release to the environment.
	P501 - Dispose of contents/container in accordance with local and national regulations.
EUH-statements	: EUH208 - Contains: Arylamine. May produce an allergic reaction.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT and/or vPvB substances  $\ge 0.1\%$  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 %

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments

: Highly refined mineral oil, contains <3% (w/w) DMSO extract, according to IP346

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons C10-C13, Aromatics, >1% Naphtalene	EC-No.: 926-273-4 REACH-no: 01-2119451151- 53	≥ 0,1 – ≤ 0,99	Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Alkylphenol (2,6-di-tert-butylphenol)	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822- 33	≥ 0,1 – ≤ 0,49	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410
Arylamine	CAS-No.: 90-30-2 EC-No.: 201-983-0	≥ 0,1 – ≤ 0,24	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410
Naphthalene	CAS-No.: 91-20-3 EC-No.: 202-049-5	≥ 0,1 – ≤ 0,24	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

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

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

After inhalation

: Not required.

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: Wash skin with mild soap and water.
<ul> <li>In case of eye contact, immediately rinse with clean water for 10-15 minutes.</li> <li>Do NOT induce vomiting. Rinse mouth out with water. Get immediate medical</li> </ul>
advice/attention.
s, both acute and delayed
: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
: Not expected to present a significant skin hazard under anticipated conditions of normal use.
: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
<ul> <li>Not expected to present a significant ingestion hazard under anticipated conditions of normal use.</li> </ul>

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 Unsuitable extinguishing media	<ul><li>Water spray, powder, foam and CO2.</li><li>Do not use a heavy water stream.</li></ul>
5.2. Special hazards arising from the s	ubstance or mixture
No additional information available	
5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions Protection during firefighting	<ul> <li>Exercise caution when fighting any chemical fire.</li> <li>Use water spray or fog for cooling exposed containers.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> </ul>

SECTION 6: Accidental release measures			
6.1. Personal precautions, protecti	ive equipment and emergency procedures		
General measures	: If spilled, may cause the floor to be slippery.		
6.1.1. For non-emergency personnel			
Protective equipment Emergency procedures	<ul><li>Gloves. Safety glasses.</li><li>Do not breathe vapours.</li></ul>		
6.1.2. For emergency responders			
Protective equipment	: Wear suitable protective clothing and gloves. Safety glasses.		
6.2. Environmental precautions			

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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	: Detergent. Clean up any spills as soon as possible, using an absorbent material to collect it			
Other information	: Spill area may be slippery. Use suitable disposal containers.			
6.4. Reference to other sections				

No additional information available

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	<ul> <li>Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.</li> </ul>
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Handling temperature	: <40 °C
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	g any incompatibilities
Technical measures Storage conditions Storage temperature Storage area	<ul> <li>Store in a closed container.</li> <li>Keep container closed when not in use.</li> <li>≤ 40 °C</li> <li>Store in dry, well-ventilated area.</li> </ul>

7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

Naphthalene (91-20-3)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOELV TWA (mg/m <sup>3</sup> ) 50 mg/m <sup>3</sup>			
IOELV TWA (ppm) 10 ppm			
United Kingdom - Occupational Exposure Limits			
WEL TWA (mg/m <sup>3</sup> ) 50 mg/m <sup>3</sup>			

#### 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

Additional information

: Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is recommended.

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### **Technical measures:**

No additional information available.

#### 8.2.2. Personal protection equipment

#### **Personal protective equipment:** Gloves. Safety glasses.

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### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

#### Eye protection:

Safety goggles

#### 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

Hand protection					
Type         Material         Permeation         Thickness (mm)         Penetration         Standard					
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN ISO 374

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid.	
Colour	Amber.	
Appearance	: Oily liquid.	
Odour	: Characteristic.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Not available	
Explosive limits	: Not available	
Lower explosion limit	: Not available	
Upper explosion limit	: Not available	
Flash point	: > 205 °C @ ASTM D92	
Auto-ignition temperature	: Not available	
Decomposition temperature	: Not available	
pH	: Not available	
Viscosity, kinematic	: 100 mm²/s @ 40°C (ASTM D445)	
Solubility	: Slightly soluble, the product remains on the water sur	rface.
Log Kow	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: 891 kg/m³ @15°C	
Relative density	: Not available	
Relative vapour density at 20°C	: Not available	

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Particle size	: Not applicable
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

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#### 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
None under normal conditions.
10.2. Chemical stability
Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No naked flames, sparks, and do not smoke.

**10.5. Incompatible materials** 

Strong oxidizing agent. Acids and bases.

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 (dermal) :	Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.)	
Hydrocarbons C10-C13, Aromatics, >1% Naph	Italene	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 Inhalation - Rat	590 mg/l 1h	
ATE CLP (vapours)	590 mg/l/4h	
ATE CLP (dust,mist)	590 mg/l/4h	
Alkylphenol (2,6-di-tert-butylphenol) (128-39-2)		
LD50 oral rat	> 5000 mg/kg bodyweight	
LD50 dermal rabbit	> 2000 mg/kg	

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Arylamine (90-30-2)		
LD50 oral rat	≈ 1625 mg/kg bodyweight	
LD50 dermal rabbit	> 5000 mg/kg bodyweight	
ATE CLP (oral)	500 mg/kg bodyweight	
Naphthalene (91-20-3)	<u>.</u>	
LD50 oral rat	> 490 mg/kg	
LD50 dermal rat	> 2200 mg/kg	
LC50 Inhalation - Rat	> 500 mg/m³ 8h	
ATE CLP (oral)	500 mg/kg bodyweight	
Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:	Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.)	
Arylamine (90-30-2)		
NOAEL (animal/male, F0/P)	< 40 mg/kg bodyweight	
NOAEL (animal/female, F0/P)	< 46 mg/kg bodyweight	
5 1	Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.)	
Hydrocarbons C10-C13, Aromatics, >1% Naph	ntalene	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight OECD 408, EPA OPP 82-1	
Alkylphenol (2,6-di-tert-butylphenol) (128-39-2	2)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight	
Arylamine (90-30-2)		
LOAEL (oral, rat, 90 days)	20 mg/kg bodyweight	
NOAEL (oral, rat, 90 days)	80 mg/kg bodyweight	
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 Compressor Oil 100		
Viscosity, kinematic	100 mm²/s @ 40°C (ASTM D445)	

## 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 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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### 11.2.2. Other information

SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met.) (acute) Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects. (chronic)		
Hydrocarbons C10-C13, Aromatics, >1% Naphtalene		
LC50 fish 1	607,9 mg/l Bateria	
LC50 fish 2	2 mg/l Oncorhynchus mykiss	
EC50 Daphnia 1	3 mg/l Dapnia Magna	
Alkylphenol (2,6-di-tert-butylphenol) (128-39-2	;)	
LC50 fish 1	1,4 mg/l Pimephales promelas	
EC50 72h - Algae [1]	3,6 mg/l Pseudokirchneriella subcapitata	
EC50 72h - Algae [2]	1,4 mg/l Pseudokirchneriella subcapitata	
EC50 96h - Algae [1]	3,9 mg/l Pseudokirchneriella subcapitata	
EC50 96h - Algae [2]	1,2 mg/l Pseudokirchneriella subcapitata	
LOEC (chronic)	0,086 mg/l Daphnia magna @21d	
NOEC (chronic)	0,035 mg/l Daphnia magna @21d	
Arylamine (90-30-2)		
LC50 fish 1	0,44 mg/l	
LOEC (chronic)	0,1 mg/l	
Naphthalene (91-20-3)		
LC50 fish 1	≈ 1,6 mg/l Oncorhynchus mykiss	
LC50 other aquatic organisms 2	2,16 mg/l @48h Daphnia magna	
EC50 Daphnia 1	≈ 1,96 mg/l @48h Daphnia magna	
EC50 other aquatic organisms 1	≈ 0,93 mg/l 30 min	
EC50 other aquatic organisms 2	> 20 mg/l 18h	
12.2. Persistence and degradability		
MPM Compressor Oil 100		
Persistence and degradability	Not soluble in water, so only minimally biodegradable.	
12.3. Bioaccumulative potential		
No additional information available		
12.4. Mobility in soil		
MPM Compressor Oil 100		
Soil	Prevent soil and water pollution.	

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12.5. Results of PBT and vPvB assessment
MPM Compressor Oil 100
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### **12.6. Endocrine disrupting properties**

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

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	s
13.1. Waste treatment methods	
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)	: 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information	
In accordance with ADR / IMDG	
14.1. UN number or ID number	
UN-No. UN-No. (IMDG)	: Not regulated : Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG)	: Not regulated : 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) Packing group (IMDG)	: Not regulated : Not regulated
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	: No : No : No supplementary information available
14.6. Special precautions for user	

Overland transport

Not regulated

Transport by sea Not regulated

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### 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	Modified	
	Revision date	Modified	
	Respiratory or skin sensitisation - comment	Added	
2.2	Precautionary statements (CLP)	Modified	
2.2	S-phrases	Removed	
2.2	R-phrases	Removed	
3	Composition/information on ingredients	Modified	
9.1	Density	Modified	
9.1	Viscosity, kinematic	Modified	
11.1	Reason for no classification	Added	
11.1	Reason for no classification	Removed	
12.1	General	Removed	

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)

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Abbreviations and acronyms		
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
ED	Endocrine disrupting properties	
EC-No.	European Community number	
vPvB	Very Persistent and Very Bioaccumulative	
SDS	Safety Data Sheet	
TRGS	Technical Rules for Hazardous Substances	
TLM	Median Tolerance Limit	
ThOD	Theoretical oxygen demand (ThOD)	
STP	Sewage treatment plant	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
РВТ	Persistent Bioaccumulative Toxic	
OEL	Occupational Exposure Limit	
OECD	Organisation for Economic Co-operation and Development	
NOEC	No-Observed Effect Concentration	
NOAEC	No-Observed Adverse Effect Concentration	
LOAEL	Lowest Observed Adverse Effect Level	
LD50	Median lethal dose	
N.O.S.	Not Otherwise Specified	
NOAEL	No-Observed Adverse Effect Level	
LC50	Median lethal concentration	
IOELV	Indicative Occupational Exposure Limit Value	
ΙΑΤΑ	International Air Transport Association	
IARC	International Agency for Research on Cancer	
IMDG	International Maritime Dangerous Goods	
EN	European Standard	

Data sources Training advice

Other information

: Supplier's safety documents. ECHA (European Chemicals Agency).

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

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.

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Full text of H- and EUH-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
EUH208	Contains: Arylamine. May produce an allergic reaction.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
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.