



# MPM E10 Fuel Protector

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 20.02.2019 Revision date: 25.10.2023 Supersedes: 14.02.2023 version: 4.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : MPM E10 Fuel Protector  
UFI : YSMU-OSMG-S109-7V6C  
Product code : AD03000  
Type of product : Additives  
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, Industrial use  
Use of the substance/mixture : Additives for gasoline fuel.  
Function or use category : Fuel additives

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

Serious eye damage/eye irritation, Category 2 H319  
Aspiration hazard, Category 1 H304  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412  
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 :

Danger.

Contains :

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.; Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; Distillates (petroleum), hydrotreated light; Kerosene - unspecified; Hydrocarbons C10-C13, Aromatics, >1% Naphtalene

Hazard statements (CLP) :

H304 - May be fatal if swallowed and enters airways.  
H319 - Causes serious eye irritation.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

EUH-statements :

EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

Other hazards not contributing to the classification : Restricted to professional users.

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or 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

Comments : Mixture of substances listed below, possibly with non-hazardous additions.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.	EC-No.: 918-481-9 REACH-no: 01-2119457273-39	$\geq 80 - \leq 95$	Asp. Tox. 1, H304
1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia	CAS-No.: 337367-30-3 EC-No.: 694-933-6	$\geq 1 - \leq 3$	Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified	CAS-No.: 64742-94-5 EC-No.: 265-198-5 EC Index-No.: 649-424-00-3 REACH-no: 01-2119510128-50	$\geq 1 - \leq 3$	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate	CAS-No.: 7491-09-0 EC-No.: 231-308-5 EC Index-No.: 231-308-5	$\geq 1 - \leq 3$	Skin Irrit. 2, H315 Eye Dam. 1, H318

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10-C13, n-alkanes, <2% aromatics	EC-No.: 929-018-5 REACH-no: 1-2119475608-26	≥ 1 – ≤ 3	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light; Kerosene - unspecified	CAS-No.: 64742-47-8 EC-No.: 265-149-8 EC Index-No.: 649-422-00-2	≥ 1 – ≤ 3	Asp. Tox. 1, H304
Hydrocarbons C10-C13, Aromatics, >1% Naphtalene	EC-No.: 926-273-4 REACH-no: 01-2119451151-53	< 1	Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Naphthalene	CAS-No.: 91-20-3 EC-No.: 202-049-5	< 1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ferrocene	CAS-No.: 102-54-5 EC-No.: 203-039-3 REACH-no: 01-21199778280-34	< 0,25	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Repr. 1B, H360 STOT RE 2, H373 Aquatic Chronic 1, H410 (M=10)
1,2,4-trimethylbenzene	CAS-No.: 95-63-6 EC-No.: 202-436-9 EC Index-No.: 601-043-00-3	< 0,25	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. If medical advice is needed, have product container or label at hand. Never give an unconscious person water or anything like that.
After inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice. If unconscious, place in the recovery position and seek medical advice.
After skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not use solvents or thinners. 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. If eye irritation persists: Get medical advice/attention.
After ingestion	: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

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

Symptoms/effects	: Headache. Overexposure to this material may result in methemoglobinemia. Naphthalene. Aspiration hazard, Category 1.
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### 4.3. Indication of any immediate medical attention and special treatment needed

IF exposed: (If swallowed, seek medical advice immediately and show this container or label).

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water spray.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- Reactivity in case of fire : Fire will develop dense smoke. Closed packages exposed to heat, cool with water.  
Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Decomposition products may be a hazard to health.

#### 5.3. Advice for firefighters

- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.  
In case of direct contact with the chemicals immediately call a POISON CENTER or doctor.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with spilled material.
- 6.1.1. For non-emergency personnel**
- Protective equipment : Wear suitable protective clothing and gloves.  
Emergency procedures : Avoid contact with skin and eyes. Do not breathe vapours.
- 6.1.2. For emergency responders**
- Protective equipment : Wear respiratory protection.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid 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.  
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

- Additional hazards when processed : Avoid contact with spilled material.  
Precautions for safe handling : If necessary, install catchments/basins to protect the environment from leakage.  
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. Product must only be kept in the original packaging.  
Storage conditions : Protect from sunlight. Store in a well-ventilated place. Store in a well-ventilated place. Keep cool.  
Incompatible materials : Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

#### 7.3. Specific end use(s)

This product may only be used for the purposes described in section 1.2.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

Distillates (petroleum), hydrotreated light; Kerosene - unspecified (64742-47-8)	
<b>EU - Binding Occupational Exposure Limit (BOEL)</b>	
BOEL TWA	1200 mg/m <sup>3</sup> 8h
<b>Naphthalene (91-20-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOELV TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
IOELV TWA (ppm)	10 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
<b>1,2,4-trimethylbenzene (95-63-6)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOELV TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup> 08-06-2000
IOELV TWA (ppm)	25 ppm 08-06-2000
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	125 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

: Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40) 1200mg/m<sup>3</sup>

##### 8.1.5. Control banding

No additional information available.

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No additional information available.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Protective goggles. Gloves. Dustproof clothing.

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



###### 8.2.2.1. Eye and face protection

###### Eye protection:

Wear tight fitting safety glasses or facial screen

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Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses	Use splash goggles when eye contact due to splashing is possible	With side shields	EN 166

### 8.2.2.2. Skin protection

#### Skin and body protection:

Long sleeved protective clothing

#### Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	5 (> 240 minutes)	> 0,38		EN 388, EN 374-2, EN 374-3

#### Other skin protection

#### Materials for protective clothing:

Impermeable clothing

### 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

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid.
Colour	: Yellow.
Appearance	: Liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: No data available.
Freezing point	: Not available
Boiling point	: > 168 °C
Flammability	: No data available.
Explosive properties	: Product is not explosive.
Explosive limits	: Not available
Lower explosion limit	: 0,6 vol %
Upper explosion limit	: 7 vol %
Flash point	: 62 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: No data available.
pH	: Not available
Viscosity, kinematic	: < 20 mm <sup>2</sup> /s Not determined.
Viscosity, dynamic	: Not determined.
Solubility	: Insoluble in water.
Log Kow	: Not available

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Vapour pressure	: Not determined.
Vapour pressure at 50°C	: Not available
Density	: 800 kg/m <sup>3</sup> @ 20 °C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle size	: No data available.
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

Other properties : No oxidising properties

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts violently with oxidizing substances.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong oxidizing agent.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

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

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

#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 4951 mg/m <sup>3</sup> @ 4h

#### Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified (64742-94-5)

LC50 Inhalation - Rat	> 590 mg/l/4h
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<b>Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate (7491-09-0)</b>	
LD50 dermal rabbit	> 10000 mg/kg bodyweight OECD 402 male
<b>Hydrocarbons, C10-C13, n-alkanes, &lt;2% aromatics</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 4951 mg/m <sup>3</sup> @ 4h
<b>Distillates (petroleum), hydrotreated light; Kerosene - unspecified (64742-47-8)</b>	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight OECD Guideline 402 (EPA OTS 798.1100)
LC50 Inhalation - Rat	> 5,28 mg/l air OECD 403 ( 95% CL: 0,42 -)
LC50 Inhalation - Rat (Vapours)	> 21 mg/l/4h
<b>Hydrocarbons C10-C13, Aromatics, &gt;1% Naphtalene</b>	
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
<b>Naphthalene (91-20-3)</b>	
LD50 oral rat	> 490 mg/kg
LD50 dermal rat	> 2200 mg/kg
LC50 Inhalation - Rat	> 500 mg/m <sup>3</sup> 8h
ATE CLP (oral)	500 mg/kg bodyweight
<b>Ferrocene (102-54-5)</b>	
LD50 oral rat	1320 mg/kg
LD50 dermal rat	> 3000 mg/kg bodyweight OECD 402
ATE CLP (oral)	1320 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h
<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LD50 oral rat	2040 mg/kg
LD50 dermal rabbit	3160 mg/kg
LC50 Inhalation - Rat	18000 mg/m <sup>3</sup> 4h
ATE CLP (oral)	2040 mg/kg bodyweight
ATE CLP (dermal)	3160 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	18 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h



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Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Causes serious eye irritation.
Additional information	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Not classified

### Distillates (petroleum), hydrotreated light; Kerosene - unspecified (64742-47-8)

NOAEL (animal/male, F0/P)	≥ 3000 mg/kg bodyweight
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STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)

### Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified (64742-94-5)

STOT-single exposure	May cause drowsiness or dizziness.
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### 1,2,4-trimethylbenzene (95-63-6)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)

### Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate (7491-09-0)

NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight OECD 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
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### Distillates (petroleum), hydrotreated light; Kerosene - unspecified (64742-47-8)

NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight
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NOAEC (inhalation, rat, vapour, 90 days)	≥ 0,024 mg/l air OECD 412 (Subacute Inhalation Toxicity: 28-Day Study)
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### Hydrocarbons C10-C13, Aromatics, >1% Naphtalene

NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight OECD 408, EPA OPP 82-1
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### Ferrocene (102-54-5)

LOAEL (oral, rat, 90 days)	25 mg/kg bodyweight OECD 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
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LOAEC (inhalation, rat, vapour, 90 days)	0,003 mg/l air
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NOAEL (oral, rat, 90 days)	5 mg/kg bodyweight OECD 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
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NOAEC (inhalation, rat, vapour, 90 days)	0,005 mg/l air
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STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard : May be fatal if swallowed and enters airways.

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Viscosity, kinematic	< 20 mm <sup>2</sup> /s Not determined.
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## 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

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics.

LC50 fish 1	> 100 mg/l @96h Oncorhynchus mykiss
EC50 Daphnia 1	> 100 mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	> 100 mg/l @72h Pseudokirchneriella subcapitata

#### Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified (64742-94-5)

EC50 Daphnia 1	3 – 5 mg/l
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#### Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate (7491-09-0)

LC50 fish 1	> 49 mg/l
EC50 Daphnia 1	6,6 mg/l Daphnia magna
EC50 Daphnia 2	10,3 mg/l Daphnia magna
EC50 other aquatic organisms 1	> 6,6 mg/l freshwater invertebrates
ErC50 (algae)	82,5 mg/l
NOEC chronic crustacea	22 mg/l

#### Hydrocarbons, C10-C13, n-alkanes, <2% aromatics

LC50 fish 1	> 100 mg/l @96h Oncorhynchus mykiss
EC50 Daphnia 1	> 100 mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	> 100 mg/l @72h Pseudokirchneriella subcapitata

#### Distillates (petroleum), hydrotreated light; Kerosene - unspecified (64742-47-8)

LC50 fish 1	45 mg/l
EC50 Daphnia 1	10000000 mg/l Daphnia Magna; calculated

#### 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 Daphnia Magna

#### 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

#### Ferrocene (102-54-5)

EC50 72h - Algae [1]	1,03 mg/l Scenedesmus subspicatus
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### 1,2,4-trimethylbenzene (95-63-6)

EC50 Daphnia 1

6,14 mg/l 48h

### 12.2. Persistence and degradability

No additional information available.

### 12.3. Bioaccumulative potential

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Bioaccumulative potential

Not established.

### 12.4. Mobility in soil

No additional information available.

### 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

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.  
Waste disposal recommendations : hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
Waste materials : Avoid release to the environment.  
European List of Waste (LoW, EC 2150/2002) : 13 07 03\* - other fuels (including mixtures)  
HP Code : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## 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)

#### ADR

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

#### IMDG

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

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### 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)

#### Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Does not apply

#### 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	
1.1	UFI on SDS 1.1	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	EUH-statements	Added	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Hazard pictograms (CLP)	Modified	

# MPM E10 Fuel Protector

## Safety Data Sheet

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

Indication of changes			
Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	

Full text of H- and EUH-statements	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
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
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
Flam. Sol. 2	Flammable solids, Category 2
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
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.
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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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.