



# Motor Oil 0W-20 Premium Synthetic ESP-FE

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Issue date: 15-1-2017 Revision date: 20-4-2022 Supersedes: 15-7-2020 version: 3.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Motor Oil 0W-20 Premium Synthetic ESP-FE  
Product code : 05000ESP-FE  
Type of product : Other engine, gear and lubricating oils.  
Product group : Blend

#### 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  
Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

MPM International Oil Company  
Cyclotronweg 1  
2629 HN Delft - Nederland  
T +31 (0)15 2514030  
[support@mpmoil.nl](mailto:support@mpmoil.nl) - [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 London	+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]

Not classified

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

No additional information available

#### 2.2. Label elements

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

EUH-statements : EUH208 - Contains Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs, calcium salts (2:1), Alkyl (C18-C28) toluene sulfonic acid, calcium salts, borated.. May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

No additional information available

### 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

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Dodecene, homopolymer, hydrogenated	(CAS-No.) 151006-63-2 (EC-No.) 604-769-9 (REACH-no) 01-2119493071-43	≥ 10 – ≤ 20	Not classified
1-Decene, homopolymer, hydrogenated	(CAS-No.) 68037-01-4 (EC-No.) 500-183-1 (REACH-no) 01-2119486452-34	≥ 1 – ≤ 9,99	Asp. Tox. 1, H304
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	(CAS-No.) 125643-61-0 (EC-No.) 406-040-9 (EC Index-No.) 607-530-00-7 (REACH-no) 01-0000015551-76	≥ 1 – ≤ 1,99	Aquatic Chronic 4, H413
Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1)	(CAS-No.) 114959-46-5 (EC-No.) 931-276-9	≥ 1 – ≤ 1,99	Skin Sens. 1, H317
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	(CAS-No.) 68784-31-6 (EC-No.) 272-238-5 (REACH-no) 01-2119657973-23	≥ 0,1 – ≤ 0,99	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Alkyl (C18-C28) toluene sulfonic acid, calcium salts, borated.	(EC-No.) 953-650-0	≥ 0,1 – ≤ 0,99	Skin Sens. 1B, H317 Repr. 2, H361d

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Alkyl (C18-C28) toluene sulfonic acid, calcium salts, borated.	(EC-No.) 953-650-0	( 17,15 ≤C < 100) Repr. 2, H361d

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.
After skin contact	: Wash skin with mild soap and water.
After eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes.
After ingestion	: Do NOT induce vomiting. Rinse mouth out with water. Get immediate medical advice/attention.

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

After inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
After skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
After eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
After ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

### 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 CO <sub>2</sub> .
Unsuitable extinguishing media	: Do not use a heavy water stream.

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

No additional information available

### 5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and gloves.

##### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves.

#### 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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.

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 any incompatibilities

Technical measures : Store in a closed container.

Storage temperature : ≤ 40 °C

Storage area : Store in dry, well-ventilated area.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m<sup>3</sup> oilspray (TWA, 8 hour workday) is recommended.

#### 8.2. Exposure controls

##### Personal protective equipment:

Gloves. Safety glasses.

##### Hand protection:

Protective gloves

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

##### Eye protection:

Safety goggles

##### Skin and body protection:

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

##### Respiratory protection:

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

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



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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Oily liquid.
Colour	: Green.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 235 °C @ ASTM D92
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 843 kg/m <sup>3</sup> @ 15°C
Solubility	: Slightly soluble, the product remains on the water surface.
Log Pow	: No data available
Viscosity, kinematic	: 40 mm <sup>2</sup> /s @ 40°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

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 toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### 1-Dodecene, homopolymer, hydrogenated (151006-63-2)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 5,06 mg/l/4h

#### 1-Decene, homopolymer, hydrogenated (68037-01-4)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

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LC50 Inhalation - Rat	> 5,2 mg/l air OECD 403
LC50 Inhalation - Rat (Vapours)	5,2 mg/l/4h

### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

LD50 oral rat	> 2000 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
Skin corrosion/irritation	: Not classified
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
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

### 1-Dodecene, homopolymer, hydrogenated (151006-63-2)

NOAEL (subacute, oral, animal/male, 28 days)	1000 mg/kg bodyweight
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### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

NOAEL (oral, rat, 90 days)	5 mg/kg bodyweight OECD 407
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Aspiration hazard : Not classified

### Motor Oil 0W-20 Premium Synthetic ESP-FE

Viscosity, kinematic	40 mm <sup>2</sup> /s @ 40°C
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## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### 1-Dodecene, homopolymer, hydrogenated (151006-63-2)

LC50 fish 1	> 1000 mg/l
EC50 Daphnia 1	> 1000 mg/l
EC50 72h - Algae [1]	> 1000 mg/l

### 1-Decene, homopolymer, hydrogenated (68037-01-4)

LC50 fish 1	> 1000 ng/l Salmo gairdneri
LC50 other aquatic organisms 1	> 1000 mg/l scenedes quadricauda @ 3hr
EC50 72h - Algae [1]	> 1000 mg/l waterflea @2Dy
EC50 72h - Algae [2]	> 125 mg/l waterflea @21Dy
NOEC (chronic)	> 1000 mg/l scenedesmus quadriacauda @3hr
NOEC (acute)	125 mg/l @waterflea @21Dy

### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

LC50 fish 1	74 mg/l @96h
LC50 fish 2	100 mg/l @ 14d
EC50 Daphnia 1	4,3 mg/l @ 24 h
EC50 Daphnia 2	100 mg/l @ 48 h
EC50 72h - Algae [1]	3 mg/l

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NOEC (chronic)	≤ 0,01 mg/l Daphnia magna @21d
NOEC chronic fish	0,5 mg/l @ 36 d
NOEC chronic algae	3 mg/l @ 72 h

### Alkyl (C18-C28) toluene sulfonic acid, calcium salts, borated.

EC50 other aquatic organisms 1	1,2 mg/l
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### 12.2. Persistence and degradability

#### Motor Oil 0W-20 Premium Synthetic ESP-FE

Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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### 1-Decene, homopolymer, hydrogenated (68037-01-4)

Biodegradation	2 % 28 Dy @ OECD TG 301D
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### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

Persistence and degradability	Not readily biodegradable.
Biodegradation	1 % @28 d

### 12.3. Bioaccumulative potential

#### 1-Decene, homopolymer, hydrogenated (68037-01-4)

Log Kow	> 6,5
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### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

BCF fish 1	260 mg/kg OECD 305 (Oncorhynchus mykiss, 35d)
Bioconcentration factor (BCF REACH)	258 (OECD 305 method)
Log Pow	9,2
Bioaccumulative potential	Moderately bioaccumulative.

### 12.4. Mobility in soil

#### reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)

Log Koc	> 2000
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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 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.

## SECTION 14: Transport information

In accordance with ADR / IMDG

ADR	IMDG
<b>14.1. UN number</b>	
Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>	
Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>	
Not applicable	Not applicable
<b>14.4. Packing group</b>	
Not applicable	Not applicable

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### 14.5. Environmental hazards

Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No
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No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 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	
1.2	Industrial/Professional use spec	Added	
1.2	Main use category	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	
3	Composition/information on ingredients	Modified	
9.1	Viscosity, kinematic	Modified	
9.1	Flash point	Modified	
9.1	Density	Modified	
11.1	Reason for no classification	Added	

### Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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Skin Sens. 1B	Skin sensitisation, category 1B
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs, calcium salts (2:1), Alkyl (C18-C28) toluene sulfonic acid, calcium salts, borated.. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

### 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.*