



# MPM Motor Oil 0W-40 Premium Synthetic PS

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 29-5-2024 version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : MPM Motor Oil 0W-40 Premium Synthetic PS  
Product code : 05000PS  
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 : 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

##### 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        | Organisation/Company   | Address                                  | Emergency number   | Comment |
|----------------|--|--|--|---------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital   | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital   | PO Box 1297<br>Beaumont Road<br>9        | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St<br>Thomas' Hospital Trust | Avonley Road<br>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]

Not classified

##### 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]

No labelling applicable

### 2.3. Other hazards

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 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]      |
|--|--|------------------------|--|
| C14-16-18 Alkylphenol  | CAS-No.: 1190625-94-5<br>EC-No.: 931-468-2<br>REACH-no: 01-2119498288-19 | $\geq 1 - \leq 1,49$   | Skin Sens. 1, H317<br>STOT RE 2, H373                                |
| Molybdeenpolysulfide-alkyl dithiocarbamaat longchain complex | EC-No.: 457-320-2<br>REACH-no: 01-0000019337-66                          | $\geq 0,1 - \leq 0,24$ | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |

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

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### 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.

### SECTION 6: Accidental release measures

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

General measures : If spilled, may cause the floor to be slippery.

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

Protective equipment : Gloves. Safety glasses.  
Emergency procedures : Do not breathe vapours.

##### 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

### 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 conditions : Keep container closed when not in use.  
Storage temperature : ≤ 40 °C  
Storage area : Store in dry, well-ventilated area.

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### 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

##### Molybdeenpolysulfide-alkyl dithiocarbamaat longchain complex

##### EU - Indicative Occupational Exposure Limit (IOEL)

|                                |                      |
|--------------------------------|----------------------|
| IOELV TWA (mg/m <sup>3</sup> ) | 10 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/m<sup>3</sup> 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.

##### 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 |

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### 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                     | : > 200 °C @ ASTM D92   |
| Auto-ignition temperature       | : Not available   |
| Decomposition temperature       | : Not available   |
| pH                              | : Not available   |
| Viscosity, kinematic            | : 68 mm <sup>2</sup> /s @ 40°C                                |
| Solubility                      | : Slightly soluble, the product remains on the water surface. |
| Log Kow                         | : Not available   |
| Vapour pressure                 | : Not available   |
| Vapour pressure at 50°C         | : Not available   |
| Density                         | : 846 kg/m <sup>3</sup> @ 15°C                                |
| Relative density                | : Not available   |
| Relative vapour density at 20°C | : Not available   |
| 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

#### 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.

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

#### Molybdeenpolysulfide-alkyl dithiocarbamaat longchain complex

|                                   |   |
|-----------------------------------|---|
| LD50 oral rat                     | > 2000 mg/kg OECD 425   |
| LD50 dermal rat                   | > 2000 mg/kg OECD 402   |
| Skin corrosion/irritation         | : Not classified  |
| Serious eye damage/irritation     | : Not classified  |
| Respiratory or skin sensitisation | : Not classified  |
| Additional information            | : The component "C14-16-18 alkylphenol" is an impurity of a substance present in the product. On the basis of tests conducted with that substance, the classification as a skin sensitizer of the impurity 'C14-16-18 alkylphenol' is rejected. |
| Germ cell mutagenicity            | : Not classified  |
| Carcinogenicity                   | : Not classified  |
| Reproductive toxicity             | : Not classified  |
| STOT-single exposure              | : Not classified  |
| STOT-repeated exposure            | : Not classified  |

#### C14-16-18 Alkylphenol (1190625-94-5)

|                        |  |
|------------------------|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard      | : Not classified   |

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|                      |                              |
|----------------------|------------------------------|
| Viscosity, kinematic | 68 mm <sup>2</sup> /s @ 40°C |
|----------------------|------------------------------|

### 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 (acute) : Not classified

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

| Molybdeenpolysulfide-alkyl dithiocarbamaat longchain complex |  |
|--|--|
| LC50 fish 1  | > 94,8 mg/l OECD 203, Oncorhynchus mykiss          |
| LC50 fish 2  | > 670 mg/l OECD 203, Oncorhynchus mykiss           |
| EC50 Daphnia 1   | 50 mg/l OECD 202 (Daphnia magna, 48h)              |
| EC50 72h - Algae [1]   | 14 mg/l OECD 201 (Pseudokirchneriella subcapitata) |
| NOEC (acute)   | 94,8 mg/l  |
| NOEC chronic crustacea                                       | 100 mg/l @21d - Daphnia Magna (OECD 211)           |
| NOEC chronic algae   | 4,05 mg/l  |

### 12.2. Persistence and degradability

| MPM Motor Oil 0W-40 Premium Synthetic PS                     |  |
|--|--|
| Persistence and degradability                                | Not soluble in water, so only minimally biodegradable. |
| Molybdeenpolysulfide-alkyl dithiocarbamaat longchain complex |  |
| Persistence and degradability                                | Not readily biodegradable.                             |
| Biodegradation   | 23 % OECD 301 (29d)                                    |

### 12.3. Bioaccumulative potential

| Molybdeenpolysulfide-alkyl dithiocarbamaat longchain complex |  |
|--|--|
| BCF fish 1   | 88 OECD 305 (Cyprinus carpio, 25C)             |
| Bioconcentration factor (BCF REACH)                          | 88 OECD 305 (Cyprinus carpio, 25C - 0.05mg/l)) |

### 12.4. Mobility in soil

| MPM Motor Oil 0W-40 Premium Synthetic PS                     |                                   |
|--|-----------------------------------|
| Soil   | Prevent soil and water pollution. |
| Molybdeenpolysulfide-alkyl dithiocarbamaat longchain complex |                                   |
| Soil   | Adsorbs into the soil.            |

### 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

No additional information available

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### 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.

European List of Waste (LoW, EC 2000/532) : 13 02 06\* - synthetic engine, gear and lubricating oils

### 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

#### 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)



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### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information

| 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)  |
| 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                      |
| PBT                        | 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  |

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### Abbreviations and acronyms

|      |   |
|------|---|
| IATA | International Air Transport Association     |
| IARC | International Agency for Research on Cancer |
| IMDG | International Maritime Dangerous Goods      |
| EN   | European Standard                           |

|                   |  |
|-------------------|--|
| Data sources      | : Supplier's safety documents. ECHA (European Chemicals Agency).   |
| Training advice   | : Normal use of this product shall imply use in accordance with the instructions on the packaging.   |
| Other information | : The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. |

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

|                   |  |
|-------------------|--|
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3  |
| H315              | Causes skin irritation.  |
| H317              | May cause an allergic skin reaction.                               |
| H373              | May cause damage to organs through prolonged or repeated exposure. |
| 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.