



MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 29/05/2024 Revision date: 30/05/2024 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-16 Premium Synthetic RN
Product code	: 08000RN
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

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

1.3. Details of the supplier of the safety data sheet

Manufacturer

MPM International Oil Company BV
Cyclotronweg 1
NL 2629 HN Delft, Zuid Holland
Nederland
T +31 (0)15 2514030 (08.00 - 17.00 GMT+1)
info@mpmoil.com, www.mpmoil.com

1.4. Emergency telephone number

No additional information available

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]

Precautionary statements (CLP)	: P102 - Keep out of reach of children.
EUH-statements	: EUH208 - Contains: Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs, calcium salts (2:1), Longchain calcium alkaryl sulfonate. May produce an allergic reaction. EUH210 - Safety data sheet available on request.

2.3. Other hazards

Other hazards not contributing to the classification : The product is not classified as dangerous according to Regulation (EC) No 1272/2008 as amended. See section 11 for more information on health effects and symptoms.

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

MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl2-propenoate (30795-64-3), Bis(nonylphenyl)amine (36878-20-3), Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1) (114959-46-5), Longchain calcium alkaryl sulfonate (722503-68-6)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl2-propenoate (30795-64-3), Bis(nonylphenyl)amine (36878-20-3), Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1) (114959-46-5), Longchain calcium alkaryl sulfonate (722503-68-6)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl2-propenoate (30795-64-3), Bis(nonylphenyl)amine (36878-20-3), Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1) (114959-46-5), Longchain calcium alkaryl sulfonate (722503-68-6)

SECTION 3: Composition/information on ingredients

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]
Distillates(petroleum), hydrotreated heavy paraffinic	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25	≥ 75 – ≤ 90	Asp. Tox. 1, H304
2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl2-propenoate	CAS-No.: 30795-64-3	≤ 5	Eye Irrit. 2, H319
Bis(nonylphenyl)amine	CAS-No.: 36878-20-3 EC-No.: 253-249-4 REACH-no: 01-2119488911-28	≤ 3	Aquatic Chronic 3, H412
Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1)	CAS-No.: 114959-46-5 EC-No.: 931-276-9	< 1	Skin Sens. 1B, H317
Longchain calcium alkaryl sulfonate	CAS-No.: 722503-68-6 EC-No.: 682-816-2	< 1	Skin Sens. 1B, H317

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Longchain calcium alkaryl sulfonate	CAS-No.: 722503-68-6 EC-No.: 682-816-2	(2 ≤ C < 100) Skin Sens. 1B; H317

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

MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

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 ₂ .
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NO _x). Phosphorus oxides. Sulphur dioxide. Hydrogen sulfide. Mercaptans. Zinc oxides.
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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. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.
Other information	: In the event of fire, promptly isolate the scene by removing all persons from the vicinity of the incident. No action should be taken if there is a risk of personal injury or in case of insufficient training.

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.
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For non-emergency personnel

Protective equipment	: Gloves. Safety glasses.
Emergency procedures	: No action should be taken if there is a risk of personal injury or in case of insufficient training. Evacuate surrounding areas. Ensure that unprotected and unnecessary personnel do not enter. Do not touch or walk through spilled material. Wear suitable personal protective equipment.

MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

For emergency responders

Protective equipment : If special clothing is required to handle the spill, read any information in Section 8 on suitable and unsuitable materials. See also the information under the heading "For persons other than emergency services".

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

For further information refer to section 8: "Exposure controls/personal protection". See Section 13 for additional waste treatment information.

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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Recommended monitoring procedures

Monitoring methods

Monitoring methods	If this product contains ingredients with exposure limits, personal, workplace environment or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need for the use of respiratory protective equipment. Monitoring standards should be used, such as the following: European Standard EN 689 (Workplace atmosphere - Guidance for the assessment of inhalation exposure to chemicals for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmosphere - Guidance for the application and use of procedures for the assessment of exposure to chemical and biological substances) European standard EN 482 (Workplace atmosphere - General requirements for the implementation of procedures for the measurement of chemical substances) In addition, consultation of national guidelines on methods for the determination of hazardous substances required.
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MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

DNEL and PNEC

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

8.2. Exposure controls

Appropriate engineering controls

Technical measures:

No additional information available.

Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety goggles

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

Respiratory protection

Respiratory protection:

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Yellow.
Appearance	: Oily liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 316 °C ISO 3405
Flammability (solid, gas)	: Not available
Lower explosion limit	: 0.9 vol %
Upper explosion limit	: 7 vol %
Flash point	: > 243 °C @ ASTM D92
Auto-ignition temperature	: > 243 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 27 mm ² /s @ 40°C
Solubility	: Slightly soluble, the product remains on the water surface.
Log Kow	: Not available

MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

Vapour pressure	: < 0.013 kPa @ 20°C
Vapour pressure at 50°C	: Does not apply
Density	: 841 kg/m ³ @ 15°C
Relative density	: 0.841
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7)

Boiling point	207 – 750 °C Atm. press.: 101,325 kPa
Flash point	98 – 344 °C Atm. press.: 101,325 kPa
Vapour pressure	< 0.1 hPa @ 20 °C

Bis(nonylphenyl)amine (36878-20-3)

Boiling point	> 300 °C
Flash point	> 200 °C

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 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

Bis(nonylphenyl)amine (36878-20-3)

LD50 oral rat	> 5000 mg/kg OECD 401
LD50 oral	> 2000 mg/kg OECD 402

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met.)
Serious eye damage/irritation	: Not classified

MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met.)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met.)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met.)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met.)

MPM Motor Oil 0W-16 Premium Synthetic RN

Viscosity, kinematic	27 mm ² /s @ 40°C
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Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7)

Viscosity, kinematic	1.99 – 847 mm ² /s @ 40°C
Hydrocarbon	Yes

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %
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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

Bis(nonylphenyl)amine (36878-20-3)

LC50 fish 1	> 100 mg/l OECD 203 (Danio rerio @96h)
EC50 Daphnia 1	> 100 mg/l OECD 202 (Daphnia magna)
EC50 72h - Algae [1]	> 100 mg/l OECD 201 (Desmodesmus subspicatus)

12.2. Persistence and degradability

MPM Motor Oil 0W-16 Premium Synthetic RN

Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7)

Persistence and degradability	Rapidly degradable
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2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl2-propenoate (30795-64-3)

Persistence and degradability	Rapidly degradable
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Bis(nonylphenyl)amine (36878-20-3)

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

Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1) (114959-46-5)

Persistence and degradability	Rapidly degradable
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MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

Longchain calcium alkaryl sulfonate (722503-68-6)

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

Bis(nonylphenyl)amine (36878-20-3)

Log Pow	> 7.6
Bioaccumulative potential	Bioaccumulation possible.

12.4. Mobility in soil

MPM Motor Oil 0W-16 Premium Synthetic RN

Soil	Spilled material can penetrate into the ground and thus contaminate groundwater. Volatilisation from water to air not expected.
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Bis(nonylphenyl)amine (36878-20-3)

Soil	Adsorbs into the soil.
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12.5. Results of PBT and vPvB assessment

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl2-propenoate (30795-64-3), Bis(nonylphenyl)amine (36878-20-3), Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1) (114959-46-5), Longchain calcium alkaryl sulfonate (722503-68-6)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl2-propenoate (30795-64-3), Bis(nonylphenyl)amine (36878-20-3), Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs., calcium salts (2:1) (114959-46-5), Longchain calcium alkaryl sulfonate (722503-68-6)

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties	: The product does not contain any ingredients believed to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at concentrations of 0.1% or higher.
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12.7. 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.
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

ADR	IMDG
14.1. UN number or ID number	
Not regulated for transport	

MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

ADR	IMDG
14.2. UN proper shipping name	
Not regulated	Not regulated
14.3. Transport hazard class(es)	
Not regulated	Not regulated
14.4. Packing group	
Not regulated	Not regulated
14.5. Environmental hazards	
Not regulated	Not regulated
No supplementary information available	

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

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 disruptor
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
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer

MPM Motor Oil 0W-16 Premium Synthetic RN

Safety Data Sheet

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

Abbreviations and acronyms:

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
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains: Benzoic acid, 2-hydroxy-, mono-C14-18-alkyl derivs, calcium salts (2:1), Longchain calcium alkaryl sulfonate. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Skin Sens. 1B	Skin sensitisation, category 1B

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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.