



MPM Motor Oil 10W-50 High Performance R

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 17/05/2011 Revision date: 12/07/2023 Supersedes: 26/10/2020 version: 3.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: MPM Motor Oil 10W-50 High Performance R
Product code	: 06000R
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	: EUH210 - Safety data sheet available on request.

2.3. Other hazards

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

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), Mineral oil, Mineral oil, Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs. (147880-09-9), Reaction products of benzeneamine, N-phenyl- with nonene (branched) (36878-20-3), Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)
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Component	
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), Mineral oil, Mineral oil, Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs. (147880-09-9), Reaction products of benzeneamine, N-phenyl- with nonene (branched) (36878-20-3), Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

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	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs. (147880-09-9), Reaction products of benzeneamine, N-phenyl- with nonene (branched) (36878-20-3), Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

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]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	CAS-No.: 72623-87-1 EC Index-No.: 276-738-4 REACH-no: 01-2119474889-13	≥ 50 – ≤ 75	Not classified
Mineral oil	-	≥ 10 – ≤ 25	Asp. Tox. 1, H304
Mineral oil	-	≤ 10	Not classified
Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs.	CAS-No.: 147880-09-9 EC Index-No.: 604-611-9	≤ 5	Aquatic Chronic 4, H413
Reaction products of benzeneamine, N-phenyl- with nonene (branched)	CAS-No.: 36878-20-3 EC-No.: 253-249-4 REACH-no: 01-2119488911-28	≤ 3	Aquatic Chronic 4, H413
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	CAS-No.: 68784-26-9 EC-No.: 272-234-3 REACH-no: 01-2119524004-56	≤ 3	Aquatic Chronic 4, H413
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	> 0.09 – ≤ 1.2	Eye Dam. 1, H318 Aquatic Chronic 2, H411

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

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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 CO2.
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.
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For non-emergency personnel

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

For emergency responders

Protective equipment	: Wear suitable protective clothing and gloves. Safety glasses.
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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.

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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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL and PNEC

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

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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	: Amber.
Appearance	: Oily liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: $\leq 33\text{ }^{\circ}\text{C}$
Freezing point	: Not available
Boiling point	: $> 300\text{ }^{\circ}\text{C}$
Flammability (solid, gas)	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: $> 210\text{ }^{\circ}\text{C}$ @ ASTM D92
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 8
Viscosity, kinematic	: $119\text{ mm}^2/\text{s}$ @ 40°C
Solubility	: Slightly soluble, the product remains on the water surface.
Log Kow	: Not available
Log Pow	: > 4
Vapour pressure	: $< 0.01\text{ kPa}$ @ 20°C
Vapour pressure at 50°C	: Not available
Density	: 859 kg/m^3 @ 15°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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.

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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

Reaction products of benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)

LD50 oral rat	> 5000 mg/m ³ (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

LD50 oral rat	> 5000 mg/kg bodyweight OECD 401
LD50 dermal rabbit	> 4000 mg/kg bodyweight OECD 402

Skin corrosion/irritation : Not classified
pH: 8
Serious eye damage/irritation : Not classified
pH: 8
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight OECD 422
NOAEL (dermal, rat/rabbit, 90 days)	≈ 250 mg/kg bodyweight OECD 410

Aspiration hazard : Not classified

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Viscosity, kinematic	119 mm ² /s @ 40°C
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Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

Viscosity, kinematic	206820 mm ² /s @ 20°C
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Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)

Viscosity, kinematic	≈ 6.95 mm ² /s @ 100.0°C
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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 : Not classified
(acute)

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

Reaction products of benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)

LC50 fish 1	100 mg/l OECD 203 (Danio rerio @96h)
EC50 Daphnia 1	> 100 mg/l OECD 202 (Daphnia magna @48h)
EC50 other aquatic organisms 1	> 100 mg/l OECD 201 (Desmodesmus subspicatus @72h)

12.2. Persistence and degradability

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Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Persistence and degradability	Rapidly degradable
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Mineral oil

Persistence and degradability	Rapidly degradable
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Mineral oil

Persistence and degradability	Rapidly degradable
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Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs. (147880-09-9)

Persistence and degradability	Rapidly degradable
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Reaction products of benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)

Persistence and degradability	Rapidly degradable
Biodegradation	1 % @28d

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

Persistence and degradability	Rapidly degradable
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Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)

Persistence and degradability	Rapidly degradable
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12.3. Bioaccumulative potential

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Log Pow	> 4
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Reaction products of benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)

Log Pow	> 7.6
Bioaccumulative potential	Bioaccumulative potential.

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12.4. Mobility in soil

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Soil	Prevent soil and water pollution.
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Reaction products of benzeneamine, N-phenyl- with nonene (branched) (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	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), Mineral oil, Mineral oil, Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs. (147880-09-9), Reaction products of benzeneamine, N-phenyl- with nonene (branched) (36878-20-3), Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1), Mineral oil, Mineral oil, Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs. (147880-09-9), Reaction products of benzeneamine, N-phenyl- with nonene (branched) (36878-20-3), Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

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

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

ADR	IMDG
14.1. UN number or ID number	
Not regulated for transport	
14.2. UN proper shipping name	
Not applicable	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable
14.4. Packing group	
Not applicable	Not applicable

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ADR	IMDG
14.5. Environmental hazards	
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No
No supplementary information available	

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

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)

15.2. Chemical safety assessment

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

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SECTION 16: Other information

Indication of changes

Section	Changed item	Comments
	Supersedes	Modified
	Revision date	Modified
1.2	Industrial/Professional use spec	Modified
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Removed
2.2	EUH-statements	Added
2.2	Hazard pictograms (CLP)	Added
2.2	Precautionary statements (CLP)	Added
2.2	Hazard statements (CLP)	Added
2.2	CLP Signal word	Added
3	Composition/information on ingredients	Modified

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
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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.