

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 6-1-2019 Revision date: 21-6-2023 Supersedes: 6-1-2019 version: 1.1

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 Advanced Technology

Product code : 08000AT

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
: Lubricants and additives

1.2.2. Uses advised against

Function or use category

No additional information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer

MPM International Oil Company Cyclotronweg 1 2629 HN Delft - Nederland T +31 (0)15 2514030

info@mpmoil.nl - 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]

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 : EUH210 - Safety data sheet available on request.

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2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Branched Alkylfenol (121158-58-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, 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 %

Component		
	The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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	

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]
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	≥ 50 – ≤ 80	Asp. Tox. 1, H304
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	≥ 10 - ≤ 24	Asp. Tox. 1, H304
Bis(nonylphenyl)amine	CAS-No.: 36878-20-3 EC-No.: 253-249-4 REACH-no: 01-2119488911- 28	≥ 1 – ≤ 2,4	Aquatic Chronic 4, H413
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	≥ 0,1 - ≤ 0,99	Eye Dam. 1, H318 Aquatic Chronic 2, H411 (M=0)
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 - ≤ 0,49	Eye Dam. 1, H318 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Branched Alkylfenol substance listed as REACH Candidate (Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP))	CAS-No.: 121158-58-5 EC-No.: 310-154-3 EC Index-No.: 604-092-00-9 REACH-no: 01-2119513207-	≥ 0,01 - ≤ 0,03	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits			
Name	Product identifier	Specific concentration limits	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	(50 <c 1,="" 100)="" dam.="" eye="" h318<="" td="" ≤=""></c>	

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.

normal asc.

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.

4.3. Indication of any immediate medical attention and special treatment needed

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

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 : \leq 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

8.1.1. National occupational exposure and biological limit values

No additional information available.

8.1.2. Recommended monitoring procedures

No additional information available.

8.1.3. Air contaminants formed

No additional information available.

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8.1.4. DNEL and PNEC

Additional information

: Based on ACGIH TLV, a concentration of 5 mg/m3 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					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN ISO 374

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. : Characteristic. Odour Odour threshold Not available Melting point : Not available : Not available Freezing point Boiling point : Not available

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Flammability : Not available Explosive limits : Not available Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : > 150 °C @ ASTM D92

Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : Not available
Viscosity, kinematic : 35 mm²/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 : 847 kg/m³ @ 15°C : Not available Relative density Relative vapour density at 20°C : Not available Particle size : Not applicable Particle size distribution : Not applicable : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable Particle aggregation state 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

Additional 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 Acute toxicity (dermal) : Not classified

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Acute toxicity (inhalation) :	Not classified	
Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7)		
LD50 oral rat	> 5000 mg/kg bodyweight	
Bis(nonylphenyl)amine (36878-20-3)		
LD50 oral rat	> 5000 mg/kg OECD 401	
LD50 oral	> 2000 mg/kg OECD 402	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophos	sphate) (4259-15-8)	
LD50 oral rat	3100 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
ATE CLP (oral)	3100 mg/kg bodyweight	
Branched Alkylfenol (121158-58-5)		
LD50 oral rat	2100 mg/kg bodyweight OECD 401 (Oral Toxicity), 95% CL: 1620 - 2730	
LD50 dermal rabbit	≈ 15000 mg/kg bodyweight OECD 402	
Skin corrosion/irritation : Serious eye damage/irritation : Respiratory or skin sensitisation : Germ cell mutagenicity : Carcinogenicity : Reproductive toxicity : STOT-single exposure : STOT-repeated exposure :	Not classified Not classified (Based on available data, the classification criteria are not met.) Not classified (Based on available data, the classification criteria are not met.) Not classified Not classified Not classified Not classified Not classified Not classified	
Distillates(petroleum), hydrotreated heavy pa	raffinic (64742-54-7)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophos	sphate) (4259-15-8)	
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)	
Aspiration hazard :	Not classified	
MPM Motor Oil 0W-16 Premium Synthetic Adv	vanced Technology	
Viscosity, kinematic	35 mm²/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 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 %	

Component	
Branched Alkylfenol(121158-58-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available

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11.2.2. Other information

SECTION 12: Ecological information

12.1. Toxicity

: This product contains one or more components that have a branched alkyl phenol impurity General

very toxic to aquatic organisms (listed in Chapter 3). The components that contain the impurity have been tested and are not toxic to it aquatic organisms. Therefore, the data in Chapter 3 on the alkylphenol impurity cannot be used to classify the product whatever

concerns the toxicity to aquatic organisms.

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 (Desmodesdus subspicatus)	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophos	phate) (4259-15-8)	
LC50 fish 1	4,4 mg/l Oncorhynchus mykiss OECD 203	
LC50 fish 2	≥ 0 mg/l	
EC50 Daphnia 1	75 mg/l Daphnia Magna OECD 201	
EC50 96h - Algae [1]	240 mg/l Scenedesmus Subspicatus OECD 201 @21d	
NOEC (chronic)	0,4 mg/l Daphna Magna OECD 211 @21 D- results analog product	
NOEC (acute)	NOEC Acute 220 mg/l Scededesmus Subspicatus OECD 201-biomass	
Branched Alkylfenol (121158-58-5)		
LC50 fish 1	3,2 mg/l	
EC50 Daphnia 1	0,072 mg/l	
EC50 72h - Algae [1]	0,15 mg/l Desmodesmus subspicatus	
EC50 72h - Algae [2]	0,36 mg/l Desmodesmus subspicatus	
LOEC (chronic)	0,012 mg/l Daphnia magna @21d	
NOEC (chronic)	0,0037 mg/l Daphnia magna @21d	
NOEC chronic fish	1 mg/l	

12.2. Persistence and degradability

MPM Motor Oil 0W-16 Premium Synthetic Advanced Technology		
Persistence and degradability Not soluble in water, so only minimally biodegradable.		
Bis(nonylphenyl)amine (36878-20-3)		
Persistence and degradability Not readily biodegradable.		
Biodegradation	1 % @28d	
Branched Alkylfenol (121158-58-5)		
Biodegradation 25 % @28d OECD TG 301 D		

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12.3. Bioaccumulative potential

Bis(nonylphenyl)amine (36878-20-3)		
Log Pow	> 7,6	
Bioaccumulative potential	Bioaccumulation possible.	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)		
Log Kow	3,59	
Branched Alkylfenol (121158-58-5)		
Bioconcentration factor (BCF REACH) 2,9 @27d		
Log Kow	7,1 measurements	

12.4. Mobility in soil

MPM Motor Oil 0W-16 Premium Synthetic Advanced Technology	
Soil	Prevent soil and water pollution.
Bis(nonylphenyl)amine (36878-20-3)	
Soil	Adsorbs into the soil.
Branched Alkylfenol (121158-58-5)	
Log Koc	4,4 – 4,67
Soil	No data available.

12.5. Results of PBT and vPvB assessment

Component	
Branched Alkylfenol (121158-58-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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.

Component	
Branched Alkylfenol(121158-58-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available

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.

SECTION 14: Transport information

In accordance with ADR / IMDG

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14.1. UN number or ID number

UN-No. : Not applicable UN-No. (IMDG) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable

14.3. Transport hazard class(es)

ADR

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

IMDG

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

14.4. Packing group

Packing group (ADR) : Not applicable Packing group (IMDG) : Not applicable

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 applicable

Transport by sea

Not applicable

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 substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) (EC 310-154-3, CAS 121158-58-5)

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)

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

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SECTION 16: Other information

Indication of ch	anges		
Section	Changed item	Change	Comments
	Supersedes	Added	
	Revision date	Modified	
	Comments (on top of composition)	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	
3	Composition/information on ingredients	Modified	
4.1	After skin contact	Modified	
4.1	After inhalation	Modified	
4.1	After ingestion	Modified	
4.2	After skin contact	Modified	
4.2	After inhalation	Modified	
4.2	After eye contact	Modified	
6.2	Environmental precautions	Modified	
6.3	Methods for cleaning up	Modified	
6.3	Other information	Modified	
7.1	Precautions for safe handling	Added	
7.1	Hygiene measures	Modified	
7.2	Technical measures	Added	
7.2	Storage temperature	Modified	
7.2	Storage area	Modified	
8.1	Additional information	Added	
8.2	Personal protective equipment	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
9.1	Solubility	Added	
9.1	Viscosity, kinematic	Modified	
9.1	Flash point	Modified	
9.1	Appearance	Modified	
9.1	Density	Modified	
10.2	Chemical stability	Modified	
10.4	Conditions to avoid	Added	
11.1	Additional information	Added	
12.1	General	Added	
13.1	Additional information	Added	

Full text of H- and EUH-statements	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1

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Full text of H- and EUH-statements	
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 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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
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.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, 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.