

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 13/11/2015 Revision date: 03/03/2023 Supersedes: 29/07/2020 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 Gear Oil 75W-80 GL-4 Premium Synthetic ECO

Product code : 18000ECO

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: Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid

with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce

an allergic reaction.

EUH210 - Safety data sheet available on request.

# 2.3. Other hazards

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

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

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Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

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 %

# 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 Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

# **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	≥ 25 – ≤ 50	Asp. Tox. 1, H304
Bis(nonylphenyl)amine	CAS-No.: 36878-20-3 EC-No.: 253-249-4 REACH-no: 01-2119488911- 28	≤ 3	Aquatic Chronic 4, H413
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	≤ 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Specific concentration limits:			
Name	Product identifier	Specific concentration limits (%)	
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	(9.39 ≤ C < 100) Skin Sens. 1; H317 (50 ≤ C < 100) Eye Dam. 1; H318 (50 ≤ C < 100) Eye Irrit. 2; H319	

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.

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.

# 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

National occupational exposure and biological limit values

Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m³)	5 mg/m³
IOELV STEL (mg/m³)	10 mg/m³

# **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

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### 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

# **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 : Not available Melting point Freezing point : Not available Boiling point : Not available Flammability (solid, gas) : Not available Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : > 240 °C @ ASTM D92

Auto-ignition temperature : Not available

Decomposition temperature : Not available

pH : Not available

Viscosity, kinematic : 54 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 : 858 kg/m³ @ 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.

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# 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

Additional information : Prolonged or repeated contact may cause skin to become dry

dyweight
odyweight
t

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

# Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

ATE CLP (oral)	500 mg/kg bodyweight
Skin corrosion/irritation :	Not classified
Serious eve damage/irritation	Not classified

Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified

Additional information : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified

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

NOAEL (dermal, rat/rabbit) > 2000 mg/kg bodyweight

STOT-repeated exposure : Not classified

Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7)	
NOAEL (subacute, oral, animal/male, 28 days)	> 220 mg/kg bodyweight
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight/day
NOAEL (subchronic, oral, animal/male, 90 days)	> 980 mg/kg bodyweight

Aspiration hazard : Not classified

# MPM Gear Oil 75W-80 GL-4 Premium Synthetic ECO

Viscosity, kinematic	54 mm²/s @ 40°C

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Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Viscosity, kinematic	1.99 – 847 mm²/s @ 40°C

# 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 %

# **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)

Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 fish 1	> 100 mg/l
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)	

# 12.2. Persistence and degradability

MPM Gear Oil 75W-80 GL-4 Premium Synthetic ECO	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.
Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Persistence and degradability	Rapidly degradable
Bis(nonylphenyl)amine (36878-20-3)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	1 % @28d
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	
Persistence and degradability Rapidly degradable	

# 12.3. Bioaccumulative potential

Bis(nonylphenyl)amine (36878-20-3)		
	Bioaccumulative potential	Bioaccumulation possible.

# 12.4. Mobility in soil

MPM Gear Oil 75W-80 GL-4 Premium Synthetic ECO	
Soil	Prevent soil and water pollution.

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Bis(nonylphenyl)amine (36878-20-3)	
Soil	Adsorbs into the soil.

# 12.5. Results of PBT and vPvB assessment

# MPM Gear Oil 75W-80 GL-4 Premium Synthetic ECO

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

# Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII

Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII

Distillates(petroleum), hydrotreated heavy paraffinic (64742-54-7), Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

# 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 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		

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# 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)

# 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

Indication of changes		
Section	Changed item	Comments
	Supersedes	Modified
	Revision date	Modified
	Adverse effects on the environment caused by endocrine disrupting properties	Added
	Adverse health effects caused by endocrine disrupting properties	Added

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Indication of changes		
Section	Changed item	Comments
	Comments (on top of composition)	Added
	Type of product	Added
1.1	Product group	Added
1.2	Industrial/Professional use spec	Added
1.2	Main use category	Modified
2.2	Precautionary statements (CLP)	Added
2.2	EUH-statements	Modified
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 eye contact	Added
4.2	After skin contact	Modified
4.2	After inhalation	Modified
4.2	After ingestion	Modified
5.3	Precautionary measures fire	Added
5.3	Firefighting instructions	Added
6.1	Emergency procedures	Added
6.1	General measures	Modified
6.1	Protective equipment	Modified
6.1	Protective equipment	Modified
6.2	Environmental precautions	Modified
6.3	Methods for cleaning up	Modified
6.3	Other information	Modified
7.1	Additional hazards when processed	Added
7.1	Precautions for safe handling	Modified
7.1	Hygiene measures	Modified
7.2	Technical measures	Added
7.2	Storage conditions	Added
7.2	Storage temperature	Modified
7.2	Storage area	Modified
8.2	Technical measures	Added
8.2	Hand protection	Modified
9.1	Viscosity, kinematic	Modified
9.1	Flash point	Modified
9.1	Appearance	Modified
9.1	Density	Modified
10.2	Chemical stability	Modified

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Indication of changes		
Section	Changed item	Comments
10.4	Conditions to avoid	Modified
10.5	Incompatible materials	Modified
10.6	Hazardous decomposition products	Added
11.1	Reason for no classification	Added
11.1	Additional information	Added
12.4	Soil	Added
13.1	Additional information	Added
13.1	European List of Waste (LoW, EC 2000/532)	Modified

# **Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists. TWA: Time Weighted Average. TLV: Threshold Limit Value. ASTM: American Society for Testing and Materials . ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route . RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail . ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin. IMDG: International Maritime Dangerous Goods. ICAO: International Civil Aviation Organization . IATA: International Air Transport Association. STEL: Short Term Exposure Limit. LD50: median Lethal Dose for 50% of subjects. ATE: acute toxicity estimate. LC50: median Lethal Concentration for 50% of subjects. EC50: concentration producing 50% effect.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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
EUH208	Contains: Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.
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
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Skin Sens. 1	Skin sensitisation, Category 1

# 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.