

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 11-12-2015 Revision date: 6-2-2023 Supersedes: 2-12-2020 version: 2.0

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

1.1. Product identifier

Product form : Mixture

Trade name : MPM BorgWarner Fluid Gen I UFI : WGGP-8D15-JF0Y-C3M7

Product code : 50000BWH

Type of product : Other engine, gear and lubricating oils.

Product group : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use, Industrial use

Industrial/Professional use spec : Non-dispersive use

Used in closed systems

Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

MPM International Oil Company BV Cyclotronweg 1 2629 HN Delft - Nederland T +31 (0)15 2514030 info@mpmoil.com - www.mpmoil.com

1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre 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]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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

Adverse physicochemical, human health and environmental effects

No additional information available

Safety Data Sheet

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

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

CLP Signal word :

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

P501 - Dispose of contents/container in accordance with local and national regulations.

P102 - Keep out of reach of children.

EUH-statements : EUH208 - Contains: Olefin derivative, Triphenyl phosphite. May produce an allergic

reaction.

2.3. Other hazards

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

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Highly refined mineral oil, contains <3% (w/w) DMSO extract, according to IP346

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	≥ 20 – ≤ 50	Asp. Tox. 1, H304
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	CAS-No.: 4259-15-8 EC-No.: 224-235-5 REACH-no: 01-2119493635- 27	≥ 1 – ≤ 2,5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Olefin derivative	EC-No.: 701-392-2 REACH-no: 01-2119976364- 28	≥ 0,1 – ≤ 1	Skin Sens. 1B, H317
Triphenyl phosphite	CAS-No.: 101-02-0 EC-No.: 202-908-4 EC Index-No.: 015-105-00-7 REACH-no: 01-2119511213- 58	≥ 0,1 - ≤ 0,25	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 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 < 100) Eye Dam. 1, H318 (50 ≤ C < 100) Eye Irrit. 2, H319			

Safety Data Sheet

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

Specific concentration limits				
Name	Product identifier	Specific concentration limits		
Triphenyl phosphite	CAS-No.: 101-02-0 EC-No.: 202-908-4 EC Index-No.: 015-105-00-7 REACH-no: 01-2119511213- 58	(5 ≤ C < 100) Eye Irrit. 2, H319 (5 ≤ C < 100) Skin Irrit. 2, H315		

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

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation : Not required.

After skin contact : Wash skin with mild soap and water.

After eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.

After ingestion : Do NOT induce vomiting. Rinse mouth out with water. Get immediate medical

advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

After inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of

normal use.

After skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal

use.

After eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of

normal use.

After ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of

normal use.

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

No additional information available

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.

6.1.1. For non-emergency personnel

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

6-2-2023 (Revision date) EN (English) 3/11

Safety Data Sheet

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

6.1.2. For emergency responders

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

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Detergent. Clean up any spills as soon as possible, using an absorbent material to collect it.

Other information : Spill area may be slippery. Use suitable disposal containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are

usually required.

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Handling temperature : < 40 °C

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a closed container.

Storage conditions : Keep container closed when not in use.

Storage temperature : ≤ 40 °C

Storage area : Store in dry, well-ventilated area.

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

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

6-2-2023 (Revision date) EN (English) 4/11

Safety Data Sheet

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

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. Odour Characteristic. Odour threshold Not available Melting point : Not available Freezing point : Not available Boiling point : Not available Flammability : Not available **Explosive limits** : Not available Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : > 200 °C DIN EN ISO 2592)

Auto-ignition temperature : Not available Decomposition temperature : Not available

6-2-2023 (Revision date) EN (English) 5/11

Safety Data Sheet

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

pH : Not available Viscosity, kinematic : 50 mm²/s @ 40°C

Solubility : Slightly soluble, the product remains on the water surface.

: Not applicable

Log Kow Not available Not available Vapour pressure Vapour pressure at 50°C Not available Density 880 kg/m³ @ 15°C Relative density Not available Relative vapour density at 20°C : Not available Particle size : Not applicable Particle size distribution : Not applicable : Not applicable Particle shape Particle aspect ratio : Not applicable : Not applicable Particle aggregation state Particle agglomeration state : Not applicable Particle specific surface area : Not applicable

9.2. Other information

Particle dustiness

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

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.

10.6. Hazardous decomposition products

Carbon dioxide. Protection against nuisance dust particles must be used when the concentration in the air is higher than 10 mg/m3.

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.) (Based on

available data, the classification criteria are not met.)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met.) (Based on

available data, the classification criteria are not met.)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met.) (Based on

available data, the classification criteria are not met.)

6-2-2023 (Revision date) EN (English) 6/11

Safety Data Sheet

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

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)				
LD50 oral rat	3100 mg/kg			
LD50 dermal rabbit	> 5000 mg/kg			
ATE CLP (oral)	3100 mg/kg bodyweight			
Triphenyl phosphite (101-02-0)				
ATE CLP (oral)	500 mg/kg bodyweight			
Skin corrosion/irritation	: Not classified			
Additional information	: Repeated exposure may cause skin dryness or cracking.			
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met.). (Based on			
	available data, the classification criteria are not met.)			
Respiratory or skin sensitisation	: Skin sensitization: Not classified (Based on available data, the classification criteria are not			
	met.). Respiratory sensitization: Not classified (Based on available data, the classification			
	criteria are not met.). (Based on available data, the classification criteria are not met.)			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
STOT-single exposure	: Not classified			
STOT-repeated exposure	: Not classified			
Aspiration hazard	: Not classified			
Additional information	: At high concentrations, the vapours can be irritating to the respiratory system			
MPM BorgWarner Fluid Gen I				
Viscosity, kinematic	50 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 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 %

11.2.2. Other information

Other information

: When used and handled accoording to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

(chronic)

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)			
LC50 fish 1 10 – 35 mg/l 96h Pimephales promelas (semi static)			
LC50 fish 2 1 – 5 mg/l 96h Pimephales promelas (static)			
EC50 Daphnia 1 1 – 1,5 mg/l 48h Daphnia magna			
EC50 other aquatic organisms 1			
EC50 96h - Algae [1] 240 mg/l Scenedesmus Subspicatus OECD 201 @21d			
NOEC (chronic) 0,4 mg/l Daphnia Magna OECD211 @21d			
NOEC (acute) NOEC Acute 220 mg/l Scededesmus Subspicatus OECD 201-biomass			

7/11 6-2-2023 (Revision date) EN (English)

Safety Data Sheet

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

Triphenyl phosphite (101-02-0)	
LC50 fish 1	0,94 mg/l (Daphnia magna)

12.2. Persistence and degradability

Triphenyl phosphite (101-02-0)	
BOD (% of ThOD)	0,14 % ThOD @28D OECD TTG 301 D

12.3. Bioaccumulative potential

MPM BorgWarner Fluid Gen I			
Bioaccumulative potential Expected to bio accumulate.			
Triphenyl phosphite (101-02-0)	Triphenyl phosphite (101-02-0)		
Log Kow 6,25 @25C Calc.			

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The product does not contain any substances with endocrine disrupting properties.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation Product/Packaging disposal recommendations

Waste disposal recommendations

: Disposal must be done according to official regulations.

: Dispose of contents/container in accordance with licensed collector's sorting instructions. : Dispose in a safe manner in accordance with local/national regulations. Dispose as

hazardous waste. Avoid release to the environment.

European List of Waste (LoW, EC 2000/532) : 13 01 11* - synthetic hydraulic oils

SECTION 14: Transport information

In accordance with ADR / IMDG

14.1. UN number or ID number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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

6-2-2023 (Revision date) EN (English) 8/11

Safety Data Sheet

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

IMDG

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

14.4. Packing group

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

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

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

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

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

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

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	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		
1.1	Trade name	Added		
1.2	Main use category	Modified		
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified		

Safety Data Sheet

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

Indication of changes				
Section	Changed item	Change	Comments	
2.2	Precautionary statements (CLP)	Modified		
3	Composition/information on ingredients	Modified		
4.1	After inhalation	Modified		
4.1	After ingestion	Modified		
4.1	After eye contact	Modified		
4.1	After skin contact	Modified		
4.2	After eye contact	Modified		
4.2	After skin contact	Modified		
5.1	Suitable extinguishing media	Modified		
5.3	Precautionary measures fire	Added		
5.3	Firefighting instructions	Added		
6.1	Emergency procedures	Added		
6.1	Protective equipment	Modified		
6.1	Protective equipment	Modified		
6.1	General measures	Modified		
6.2	Environmental precautions	Modified		
6.3	For containment	Added		
6.3	Methods for cleaning up	Modified		
6.3	Other information	Modified		
7.1	Additional hazards when processed	Added		
7.1	Handling temperature	Added		
7.1	Precautions for safe handling	Modified		
7.1	Hygiene measures	Modified		
7.2	Technical measures	Added		
7.2	Storage temperature	Added		
7.2	Storage area	Added		
7.2	Storage conditions	Modified		
8.2	Technical measures	Modified		
9.1	Appearance	Added		
9.1	Density	Modified		
9.1	Solubility	Modified		
9.1	Viscosity, kinematic	Modified		
9.1	Flash point	Modified		
10.2	Chemical stability	Modified		
10.4	Conditions to avoid	Modified		
10.6	Hazardous decomposition products	Modified		
11.1	Reason for no classification	Added		
11.1	Reason for no classification	Added		

Safety Data Sheet

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

Indication of changes			
Section	Changed item	Change	Comments
11.1	Reason for no classification	Added	
11.1	Reason for no classification	Added	
11.1	Reason for no classification	Added	

Full text of H- and EUH-statements		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
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 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
EUH208	Contains: Olefin derivative, Triphenyl phosphite. May produce an allergic reaction.	
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.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
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.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	

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.