

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 9-7-2019 Revision date: 11-7-2022 Supersedes: 19-4-2022 version: 5.0

SECTION 1: lo	lentification of the subst	ance/mixture and of the	company/undertaking		
1.1. Product ide	entifier				
Product form		: Mixture			
Product name		: Motor Oil 5W-20 Synthetic	DX1 Fuel Economy		
Product code		: 05000DX1-FE			
Product group		: Blend			
1.2. Relevant id	entified uses of the substa	nce or mixture and uses a	dvised against		
1.2.1. Relevant id	entified uses				
Main use category	,	: Professional use,Consumer use,Industrial use			
Industrial/Profession	onal use spec	: Non-dispersive use Used in closed systems			
Function or use ca	tegory	: Lubricants and additives			
1.2.2. Uses advis	•				
No additional infor	mation available. he supplier of the safety da				
MPM International Cyclotronweg 1 2629 HN Delft Del T +31 (0)15 25140 info@mpmoil.nl - v	Oil Company ft - Nederland 130				
	telephone number				
Emergency number		: +31 (0)15 2514030 (08.00 - 1	7.00 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 London	+44 20 7188 7188		
	lenerale identification				
	azards identification on of the substance or mix	ture			
Classification acc Not classified	cording to Regulation (EC) No.	1272/2008 [CLP]			
Adverse physico No additional infor	chemical, human health and en mation available.	nvironmental effects			
2.2. Label elements					
Labelling according to Regulation (EC) No. 1272/2008 [CLP]					
EUH-statements : EUH208 - Contains Benzenesulphonic acid, methyl mono-C 20 -C 24 branched alkyl derivatives, calcium salts. May produce an allergic reaction. EUH210 - Safety data sheet available on request.					
2.3. Other hazards					
No additional infor	mation available.				
SECTION 3: C	omposition/information	on ingradiants			
3.1 Substances		on ingredients			

3.2. Mixtures

Comments

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

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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
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 – ≤ 0,99	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Benzenesulphonic acid, methyl mono-C 20 -C 24 branched alkyl derivatives, calcium salts	(CAS-No.) 722503-68-6 (EC-No.) 682-816-2	≥ 0,1 – ≤ 0,99	Skin Sens. 1B, H317
Phenol, dodecyl-, branched 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 (REACH-no) 01-2119513207-49	≥ 0,01 – ≤ 0,03	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1A, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
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

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 subs	stance 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.	

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6.1.2. For emergency responders Protective equipment	Wear quitable protective elething and gloves. Sefety glosses
• •	: Wear suitable protective clothing and gloves. Safety glasses.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify au	thorities 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 a	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: Expo	sure controls/pers	onal protection			
8.1. Control parame	ters				
Additional information		: Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is recommended.			
8.2. Exposure contr	ols				
Technical measures:					
No additional informatio	n available.				
Personal protective ec	quipment:				
Gloves. Safety glasses.					
Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN ISO 374
Eye protection:					
Safety goggles					
Skin and body protect	ion:				
No special clothing/skin	protection equipment is	recommended under nor	mal conditions of use		
Respiratory protection:					

Respiratory protection:

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

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical pro	operties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Oily liquid.	
Colour	: Amber.	
Odour	: Characteristic.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: > 150 °C @ ASTM D92	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 848 kg/m³ @ 15°C	
Solubility	: Slightly soluble, the product remains on the water surface.	
Log Pow	: No data available	
Viscosity, kinematic	: 45 mm²/s @ 40°C	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
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 toxicological effects			
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
Zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	sphate) (4259-15-8)		
LD50 oral rat	3100 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		

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STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Motor Oil 5W-20 Synthetic DX1 Fuel Economy	1	
Viscosity, kinematic	45 mm²/s @ 40°C	
SECTION 12: Ecological information 12.1. Toxicity		
	: This product contains one or more components that have a branched alkyl phenol impurity	
	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.	
Zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophos	phate) (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	1 – 5 mg/l 96h Pseudokirchneriella subcapitata	
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	
12.2. Persistence and degradability		
Motor Oil 5W-20 Synthetic DX1 Fuel Economy	/	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.	
Phenol, dodecyl-, branched (121158-58-5)		
	25 % Sturm toot @29d	
Biodegradation 12.3. Bioaccumulative potential	25 % Sturm-test @28d	
Phenol, dodecyl-, branched (121158-58-5)		
Bioconcentration factor (BCF REACH)	2,9 @27d	
Log Kow	7,1 @0,1d	
12.4. Mobility in soil		
Motor Oil 5W-20 Synthetic DX1 Fuel Economy		
Soil	Prevent soil and water pollution.	
12.5. Results of PBT and vPvB assessment		
Component		
Phenol, dodecyl-, branched (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. 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.

SECT	ION	14:1	Frans	sport	inform	ation

In accordance with ADR / IMDG

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IMDG		
14.1. UN number		
Not applicable		
14.2. UN proper shipping name		
Not applicable		
14.3. Transport hazard class(es)		
Not applicable		
14.4. Packing group		
Not applicable		
14.5. Environmental hazards		
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. Transport in bulk according to Annex II of Marpol and the IBC Code

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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 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	
	Contains a substance on the REACH candidate list: {0}		
	Contains a substance on the REACH candidate list: {0}		
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Added	
2.2	Hazard statements (CLP)	Added	
2.2	Precautionary statements (CLP)	Added	
2.2	EUH-statements	Modified	
11 7 2022 (version: E.O.		EN (English)	6/7

Skin sensitisation, category 1B

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3	Composition/information on ingredients		Modified	
9.1	Flash point		Modified	
9.1	Density		Modified	
12.1	General		Added	
Full text of H- and EUH-statements:				
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		
Eye Dam. 1		Serious eye damage/eye irritation, Category 1		
Repr. 1A		Reproductive toxicity, Category 1A		
Skin Corr. 1C		Skin corrosion/irritation, Category 1, Sub-Category 1C		

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360F	May damage fertility.
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.
EUH208	Contains Benzenesulphonic acid, methyl mono-C 20 -C 24 branched alkyl derivatives, calcium salts. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

SDS MPM REACH

Skin Sens. 1B

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.