

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 18-10-2010 Revision date: 20-1-2023 Supersedes: 28-12-2021 version: 6.2

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

1.1. Product identifier

Product form : Mixture

Trade name : MPM PSF Power Steering Fluid MB

UFI : 7C9X-62N4-9N4X-DK2E

Product code : 50000MB

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

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

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 London	+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]

Acute toxicity (inhalation:dust,mist) Category 4 H332
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available.

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2.2. Label elements

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

Hazard pictograms (CLP)





GHS07

GHS08

CLP Signal word : Danger.

Contains : Dec-1-ene, dimers, hydrogenated; Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics,

<2% aromatics; Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil based.

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.

H332 - Harmful if inhaled.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing mist, vapours.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P331 - Do NOT induce vomiting.

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

P102 - Keep out of reach of children.

2.3. Other hazards

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 %

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]
Dec-1-ene, dimers, hydrogenated	CAS-No.: 68649-11-6 EC-No.: 500-228-5 REACH-no: 01-2119493069- 28	≥ 30 - ≤ 60	Acute Tox. 4 (Inhalation), H332 Asp. Tox. 1, H304
Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil based.	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878-	≥ 10 - ≤ 30	Asp. Tox. 1, H304
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS-No.: 1174522-19-0 EC-No.: 919-029-3 REACH-no: 01-2119457735- 29	≥1-≤5	Asp. Tox. 1, H304
Alkylphenol (2,6-di-tert-butylphenol)	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822- 33	< 1	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
C16-18-(even numbered, saturated and unsaturated)-alkylamines	CAS-No.: 1213789-63-9 EC-No.: 627-034-4 REACH-no: 01-2119473797- 19	<1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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.

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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 : ≤ 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.

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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 : Green.
Appearance : Oily liquid.
Odour : Characteristic.
Odour threshold : Not available
Melting point : -54 °C
Freezing point : Not available

Boiling point : > 320 °C @ 101.3 kPa

Flammability : Practically non flammable liquid. However, it may present a risk in the event of a fire

Explosive properties : Product is not explosive.

Oxidising properties : Based on available data, the classification criteria are not met.

Explosive limits : 0.6 - 6.5 vol % Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available

Flash point : 147 °C Pensky-Martens closed cup

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Auto-ignition temperature : Not available

Decomposition temperature : Not available

pH : Not available

Viscosity, kinematic : 18,6 mm²/s @ 40°C

Solubility : Insoluble in water.

Organic solvent:Soluble
: Not available

Log Kow: Not availableVapour pressure: Not availableVapour pressure at 50°C: Not available

Density : 834 kg/m³ @ 15.6°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 Particle aggregation state : Not applicable 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 : Without VOC (volatile organic compounds)

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.)

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

Acute toxicity (inhalation) : Harmful if inhaled. (Based on available data, the classification criteria are not met.)

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MPM PSF Power Steering Fluid MB	
ATE CLP (dust,mist)	1,5 mg/l/4h
Dec-1-ene, dimers, hydrogenated (68649-11-6	
LD50 oral rat	> 4000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight OECD 402
LD50 dermal rabbit	> 3000 mg/kg
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h
Alkylphenol (2,6-di-tert-butylphenol) (128-39-2	<u>.</u> 2)
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg
C16-18-(even numbered, saturated and unsatu	urated)- alkylamines (1213789-63-9)
ATE CLP (oral)	500 mg/kg bodyweight
Respiratory or skin sensitisation : Additional information : Germ cell mutagenicity : Carcinogenicity :	Not classified Not classified Slightly irritant to eyes Not classified Based on available data, the classification criteria are not met. Not expected to be a skin sensitizer Not classified (Based on available data, the classification criteria are not met.) Not classified Not classified (Based on available data, the classification criteria are not met.)
•	Not classified
C16-18-(even numbered, saturated and unsatu	urated)- alkylamines (1213789-63-9)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure :	Not classified
Alkylphenol (2,6-di-tert-butylphenol) (128-39-2	2)
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight
C16-18-(even numbered, saturated and unsatu	urated)- alkylamines (1213789-63-9)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
·	May be fatal if swallowed and enters airways. Kinematic viscosity <= 20.5 cSt @ 40 C. Possesses an aspiration hazard.
MPM PSF Power Steering Fluid MB	
Viscosity, kinematic	18,6 mm²/s @ 40°C
11.2 Information on other hazards	

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 %

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11.2.2. Other information

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

: Not classified

(acute)

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

(chronic)

Dec-1-ene, dimers, hydrogenated (68649-11-6)		
LC50 fish 1 > 1000 mg/l		
Alkylphenol (2,6-di-tert-butylphenol) (128-39-2)		
LC50 fish 1	1,4 mg/l Pimephales promelas	
EC50 72h - Algae [1]	3,6 mg/l Pseudokirchneriella subcapitata	
EC50 72h - Algae [2]	1,4 mg/l Pseudokirchneriella subcapitata	
EC50 96h - Algae [1]	3,9 mg/l Pseudokirchneriella subcapitata	
EC50 96h - Algae [2]	1,2 mg/l Pseudokirchneriella subcapitata	
LOEC (chronic)	0,086 mg/l Daphnia magna @21d	

12.2. Persistence and degradability

MPM PSF Power Steering Fluid MB	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.

0,035 mg/l Daphnia magna @21d

12.3. Bioaccumulative potential

MPM PSF Power Steering Fluid MB	
Bioaccumulative potential	No bioaccumulation expected.

12.4. Mobility in soil

NOEC (chronic)

MPM PSF Power Steering Fluid MB	
Soil	Avoid release to the environment. Low mobility (soil).

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

Additional information : This material and its container must be disposed of in a safe way, and as per local legislation.

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European List of Waste (LoW) code : 13 01 13* - other hydraulic oils

SECTION 14: Transport information

In accordance with ADR / IMDG

14.1. UN number or ID number

UN-No. : Not regulated 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)

ADR

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

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 chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	
1.1	Trade name	Added	
2.2	Hazard pictograms (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
10.5	Incompatible materials	Modified	
10.6	Hazardous decomposition products	Modified	
11.1	Additional information	Modified	
11.1	Additional information	Added	
12.3	Bioaccumulative potential	Added	

Full text of H- and EUI	Full text of H- and EUH-statements		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4		
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 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		

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Full text of H- and EUF	I-statements
H412	Harmful to aquatic life with long lasting effects.

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.