



MPM Power Steering Fluid Synthetic SHVI

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 18/10/2010 Revision date: 13/12/2024 Supersedes: 29/03/2023 version: 6.3

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

1.1. Product identifier

Product form : Mixture
Trade name : MPM Power Steering Fluid Synthetic SHVI
UFI : 03XW-W274-6N43-QUQY
Product code : 50000
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

Country/Area	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)	

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, H412
Category 3
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



MPM Power Steering Fluid Synthetic SHVI

Safety Data Sheet

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

	GHS07	GHS08
CLP Signal word	: DANGER.	
Contains	: Dec-1-ene, dimers, hydrogenated; 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)	: P102 - Keep out of reach of children. P261 - Avoid breathing vapours, mist. 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.	

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 $\geq 0.1\%$ 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

3.2. 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	$\geq 30 - \leq 60$	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: 01-2119474878-16	$\geq 10 - \leq 30$	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	$\geq 1 - \leq 5$	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 (M=1) Aquatic Chronic 1, H410
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 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

MPM Power Steering Fluid Synthetic SHVI

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 (%)
C16-18-(even numbered, saturated and unsaturated)-alkylamines	CAS-No.: 1213789-63-9 EC-No.: 627-034-4 REACH-no: 01-2119473797-19	(10 ≤ C < 100) STOT RE 2; H373

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.
------------------	---

For non-emergency personnel

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

MPM Power Steering Fluid Synthetic SHVI

Safety Data Sheet

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

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

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):



MPM Power Steering Fluid Synthetic SHVI

Safety Data Sheet

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

Eye and face protection

Eye protection:

Safety goggles

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					
Type	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	: 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 (solid, gas)	: 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.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 147 °C Pensky-Martens closed cup
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 18.6 mm ² /s @ 40°C
Solubility	: Insoluble in water. Organic solvent: Soluble
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 822 kg/m ³ @ 15.6°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosion limits : 0.6 – 6.5 vol %

Other safety characteristics

Additional information : Without VOC (volatile organic compounds)

MPM Power Steering Fluid Synthetic SHVI

Safety Data Sheet

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

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) : Inhalation:dust,mist: Harmful if inhaled.

MPM Power Steering Fluid Synthetic SHVI	
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)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg
C16-18-(even numbered, saturated and unsaturated)- alkylamines (1213789-63-9)	
ATE CLP (oral)	500 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Additional information	: Slightly irritant to eyes
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met. Not expected to be a skin sensitizer
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity	: Not classified

MPM Power Steering Fluid Synthetic SHVI

Safety Data Sheet

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

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure : Not classified

C16-18-(even numbered, saturated and unsaturated)- 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)

NOAEL (oral, rat, 90 days) : 100 mg/kg bodyweight

C16-18-(even numbered, saturated and unsaturated)- alkylamines (1213789-63-9)

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

Additional information : Kinematic viscosity <= 20.5 cSt @ 40 C. Possesses an aspiration hazard.

MPM Power Steering Fluid Synthetic SHVI

Viscosity, kinematic : 18.6 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 (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

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

NOEC (chronic) : 0.035 mg/l Daphnia magna @21d

12.2. Persistence and degradability

MPM Power Steering Fluid Synthetic SHVI

Persistence and degradability : Not soluble in water, so only minimally biodegradable.

Dec-1-ene, dimers, hydrogenated (68649-11-6)

Persistence and degradability : Rapidly degradable

MPM Power Steering Fluid Synthetic SHVI

Safety Data Sheet

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

Alkylphenol (2,6-di-tert-butylphenol) (128-39-2)	
Persistence and degradability	Rapidly degradable
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (1174522-19-0)	
Persistence and degradability	Rapidly degradable
C16-18-(even numbered, saturated and unsaturated)- alkylamines (1213789-63-9)	
Persistence and degradability	Rapidly degradable
Lubricating Oil (Petroleum) C15-30 hydrotreated neutral oil based. (72623-86-0)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

MPM Power Steering Fluid Synthetic SHVI	
Bioaccumulative potential	No bioaccumulation expected.

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

MPM Power Steering Fluid Synthetic SHVI	
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.

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 01 13* - other hydraulic 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

MPM Power Steering Fluid Synthetic SHVI

Safety Data Sheet

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

ADR	IMDG
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	

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 chemical safety assessment has been carried out

MPM Power Steering Fluid Synthetic SHVI

Safety Data Sheet

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

SECTION 16: Other information

Indication of changes

Section	Changed item	Comments
	Supersedes	Modified
	Revision date	Modified
2.2	Precautionary statements (CLP)	Modified
3	Composition/information on ingredients	Modified
4.1	After inhalation	Modified

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), 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
Asp. Tox. 1	Aspiration hazard, Category 1
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.
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.
H412	Harmful to aquatic life with long lasting effects.
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

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.