



PSF Power Steering Fluid SHVI Synthetic

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 18/10/2010

Revision date: 28/04/2015

version: 4.0

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

1.1. Product identifier

Product name : PSF Power Steering Fluid SHVI Synthetic
Product code : 50000

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
Use of the substance/mixture : Automotive care products
Function or use category : Hydraulic fluids 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 - F +31 (0)15 2514031
info@mpmoil.nl - www.mpmoil.nl

1.4. Emergency telephone number

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

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Centre Hospitalier Universitaire de Constantine	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Inhalation) H332
Asp. Tox. 1 H304

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS08

CLP Signal word : Danger.
Hazardous ingredients : Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based, Baseoil - unspecified,; White mineral oil (petroleum); Dec-1-ene, dimers, hydrogenated
Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways
H332 - Harmful if inhaled
Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand
P261 - Avoid breathing mist, spray, vapours
P271 - Use only outdoors or in a well-ventilated area
P301+P310 - IF SWALLOWED: Immediately call a doctor
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P405 - Store locked up
P501 - Dispose of contents/container to officially registered waste disposal company
EUH-statements : EUH208 - Contains Ethanol, 2,2'-iminobis-,N-tallow alkyl derivatives(61791-44-4). May produce

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an allergic reaction

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Comments (on top of composition) : This product is formulated with highly refined mineral oils which are considered under IARC as not carcinogenic. It was the IP 346 test showed that all oils in this product contains less than 3% extractable substances

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	50 - 100	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Asp. Tox. 1, H304
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based, Baseoil - unspecified,	(CAS No) 72623-86-0 (EC no) 276-737-9 (EC index no) 649-482-00-X	10 - 25	Asp. Tox. 1, H304
White mineral oil (petroleum)	(CAS No) 8042-47-5 (EC no) 232-455-8 (REACH-no) 01-2119487078-27	2,5 - 10	Asp. Tox. 1, H304
dibutyl phosphonate	(CAS No) 1809-19-4 (EC no) 217-316-1	0,1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Ethanol, 2,2'-iminobis-,N-tallow alkyl derivates	(CAS No) 61791-44-4 (EC no) 263-177-5	0,1 - 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General : In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible). Cough, difficult breathing or other symptoms of poisoning may occur within some hours. Keep under medical supervision for at least 48 hours.

After inhalation : Take victim to fresh air, in a quiet place and if necessary take medical advice.

After skin contact : As a precaution: Wash with plenty of soap and water.

After eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

After ingestion : Do NOT induce vomiting. Get immediate medical advice/attention.

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

No additional information available

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

Entering the lungs by ingestion or vomiting may cause severe lung damage.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : hazy water, powder, foam and CO₂.

Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting : In case of fire: Wear self-contained breathing apparatus.

Other information : Use water spray/stream to protect personnel and to cool endangered containers.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No particular/specific measures required.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Do not release in groundwater, surfacewater or sewerage.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).

Other information : Can be slippery on hard, smooth walking area.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures : When using do not eat, drink or smoke. Wash hands before breaks and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

Storage area : Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

White mineral oil (petroleum) (8042-47-5)		
EU	IOELV TWA (ppm)	5 ppm
EU	IOELV STEL (ppm)	10 ppm

Additional information : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

8.2. Exposure controls

Technical measures : The substance must be handled in accordance with good industrial hygiene and safety procedures.

Personal protective equipment : Gloves.

Materials for protective clothing : Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Suitable material: nitrile rubber, neoprene. Unsuitable materials: Butyl rubber, NR (Natural rubber (caoutchouc), Natural latex)

Hand protection : Wear suitable gloves. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR), Polyvinylchloride (PVC)	5 (> 240 minutes)			

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Not necessary with sufficient ventilation



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Environmental exposure controls : Dispose of in accordance with relevant local regulations. Avoid release to the environment.
Other information : The usual precautions for handling chemicals should be observed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : green.
Odour : characteristic.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : -60 °C (ISO 3016)
Freezing point : No data available
Boiling point : > 300 °C (SAE J1703)
Flash point : 160 °C ISO 2592
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 : 830 g/l (ISO 12185)
Solubility : insoluble.
Log Pow : No data available
Viscosity, kinematic : < 19 mm²/s @ 40°C (ISO 3104)
Viscosity, dynamic : No data available
Explosive properties : Product is not explosive.
Oxidising properties : No data available
Explosive limits : 0,6 - 6,5 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal use.

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

None under normal use.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation: Harmful if inhaled.

ATE CLP (gases)	4500,000 ppmv/4h
ATE CLP (vapours)	11,000 mg/l/4h
ATE CLP (dust,mist)	1,500 mg/l/4h

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

LD50 oral rat	> 4000 mg/kg
LD50 dermal rabbit	> 3000 mg/kg

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White mineral oil (petroleum) (8042-47-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
Ethanol, 2,2'-iminobis-,N-tallow alkyl derivatives (61791-44-4)	
LD50 oral rat	1350 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified Not expected to be a skin sensitizer
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified This product is formulated with highly refined mineral oils which are considered under IARC as not carcinogenic. It was the IP 346 test showed that all oils in this product contains less than 3% extractable substances
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

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Viscosity, kinematic	< 19 mm ² /s @ 40°C (ISO 3104)

Other information : When used and handled according 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

General : Do not allow uncontrolled leakage of product into the environment.

Dec-1-ene, dimers, hydrogenated (68649-11-6)	
LC50 fish 1	> 1000 mg/l
White mineral oil (petroleum) (8042-47-5)	
LC50 fish 1	> 100 mg/l
Ethanol, 2,2'-iminobis-,N-tallow alkyl derivatives (61791-44-4)	
LC50 fish 1	< 1 mg/l @ 96h
EC50 Daphnia 1	< 1 mg/l @ 48h

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

PSF Power Steering Fluid SHVI Synthetic	
Soil	Prevent soil and water pollution.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste disposal recommendations	: Remove to an authorized waste treatment plant.
Waste materials	: Do not empty into drains; dispose of this material and its container in a safe way.
European List of Waste (LoW) code	: 13 01 00 - waste hydraulic oils 13 01 11* - synthetic hydraulic oils

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

14.3. Transport hazard class(es)

ADR

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

IMDG

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

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

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

No data available

- Transport by sea

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

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H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH208	Contains . May produce an allergic reaction.

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