

**Synfluid® PAO 100 cSt**

Version 1.2

Revision Date 2010-09-17

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : Synfluid® PAO 100 cSt
Material : 1079893, 1070415, 1079677
Use : Lubricant

Company : Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.
Brusselsesteenweg 355
B-3090 Overijse
Belgium

MSDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email:msds@cpchem.com

Emergency telephone:**Health:**

866.442.9628 (North America)
1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887
Asia: +800 CHEMCALL (+800 2436 2255) China: 0532.8388.9090
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group
E-mail address : MSDS@CPChem.com
Website : www.CPChem.com

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a dangerous substance according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Label elements**Labeling (REGULATION (EC) No 1272/2008)**

Synfluid® PAO 100 cSt

Version 1.2

Revision Date 2010-09-17

Not a dangerous substance according to Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Hazardous ingredients which must be listed on the label:

- 872-05-9 1-Decene

Additional Labeling:

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 99,99 %

Labeling according to EC Directives (1999/45/EC)

Further information : The product does not need to be labeled in accordance with EC directives or respective national laws.

Other hazards**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : Synfluid® PAO 100 CST
Polyalphaolefin
PAO

Molecular formula : Mixture

Mixtures**Hazardous ingredients**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Contains no hazardous ingredients according to GHS. :				
1-Decene Homopolymer Hydrogenated	68037-01-4			100

4. FIRST AID MEASURES

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may only appear several hours later. Do not leave the victim unattended.

If inhaled : Move to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Do not

Synfluid® PAO 100 cSt

Version 1.2

Revision Date 2010-09-17

give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

5. FIRE-FIGHTING MEASURES

Flash point	:	290 °C (554 °F) Method: Cleveland Open Cup
Autoignition temperature	:	310 °C (590 °F)
Unsuitable extinguishing media	:	High volume water jet.
Special protective equipment for fire-fighters	:	Wear self contained breathing apparatus for fire fighting if necessary.
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire and explosion protection	:	Normal measures for preventive fire protection.
Hazardous decomposition products	:	None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Handling**

Advice on safe handling	:	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.

Synfluid® PAO 100 cSt

Version 1.2

Revision Date 2010-09-17

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Chevron Phillips Chemical Company LP**

Ingredients	Basis	Value	Control parameters	Note
1-Decene Homopolymer Hydrogenated	Manufacturer	TWA	5 mg/m ³	

Personal protective equipment

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties****Appearance**

Form : Oil

Color : clear, light

Safety data

Flash point : 290 °C (554 °F)
Method: Cleveland Open Cup

Lower explosion limit : not applicable

Upper explosion limit : not applicable

Oxidizing properties : no

Autoignition temperature : 310 °C (590 °F)

Molecular formula : Mixture

Molecular Weight : No data available

Synfluid® PAO 100 cSt

Version 1.2

Revision Date 2010-09-17

pH	:	not applicable
Melting point/range	:	-25 °C (-13 °F)
Boiling point/boiling range	:	250 °C (482 °F)
Vapor pressure	:	0,01 PSI at 20 °C (68 °F)
Water solubility	:	Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-octanol/water	:	No data available
Viscosity, kinematic	:	1.250 cSt at 40 °C (104 °F)
Relative vapor density	:	7 (Air = 1.0)
Evaporation rate	:	No data available
Percent volatile	:	No data available

10. STABILITY AND REACTIVITY**Possibility of hazardous reactions**

Conditions to avoid	:	No data available.
Materials to avoid	:	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Other data	:	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Product		
Acute oral toxicity	:	LD50: > 5,0 g/kg Species: rat
Product		
Acute inhalation toxicity	:	LC50: not known
Product		
Acute dermal toxicity	:	LD50: > 2,0 g/kg Species: rabbit
Product		
Skin irritation	:	No skin irritation

Synfluid® PAO 100 cSt

Version 1.2

Revision Date 2010-09-17

Product

Eye irritation : No eye irritation

Product

Sensitization : Did not cause sensitization on laboratory animals.

Product

Repeated dose toxicity : Species: rat
 Application Route: oral gavage
 Dose: 0 to 1000 mg/kg
 Exposure time: 28 day
 NOEL: 1.000 mg/kg

Product

Aspiration toxicity : No aspiration toxicity classification.

Product

Further information : Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish : LC50: > 1.000 mg/l
 Exposure time: 96 HR
 Species: Salmo gairdneri (Rainbow trout)

Toxicity to daphnia and other aquatic invertebrates. : EC50: 230 mg/l
 Exposure time: 48 HR
 Species: Daphnia magna (Water flea)

Toxicity to algae : EC50: > 1.000 mg/l
 Exposure time: 96 HR
 Species: Selenastrum capricornutum (algae)

Elimination information (persistence and degradability)

Biodegradability : This material is not expected to be readily biodegradable.

Further information on ecology**13. DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Synfluid® PAO 100 cSt

Version 1.2

Revision Date 2010-09-17

- Product : Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

14. TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

USDOT

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

15. REGULATORY INFORMATION**National legislation**

Major Accident Hazard Legislation : 96/82/EC Update: 2003
Directive 96/82/EC does not apply

Notification status

Europe REACH : On the inventory, or in compliance with the inventory
United States of America TSCA : On the inventory, or in compliance with the inventory
Canada DSL : On the inventory, or in compliance with the inventory
Australia AICS : On the inventory, or in compliance with the inventory

Synfluid® PAO 100 cSt

Version 1.2

Revision Date 2010-09-17

New Zealand NZIoC	: On the inventory, or in compliance with the inventory
Japan ENCS	: On the inventory, or in compliance with the inventory
Korea KECI	: On the inventory, or in compliance with the inventory
Philippines PICCS	: On the inventory, or in compliance with the inventory
China IECSC	: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION**Further information**

Legacy MSDS Number : 4371

NSF H1, HX-1 Registered, meets USDA 1998 H1 Guidelines

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.