

Version 1.8 Revision Date 2016-03-07

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

**Product information** 

Product Name : Synfluid® PAO 6 cSt

Material : 1111741, 1111740, 1111734, 1079874, 1079931, 1079667

Use : Synthetic Lubricants

Company : Chevron Phillips Chemical Company LP

10001 Six Pines Drive The Woodlands, TX 77380

#### **Emergency telephone:**

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 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 : SDS@CPChem.com Website : www.CPChem.com

# **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

## **Emergency Overview**

Physical state: Liquid Color: Clear, Colorless Odor: Odorless

OSHA Hazards : No OSHA Hazards

Classification

:

Not a hazardous substance or mixture.

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## Labeling

Not a hazardous substance or mixture.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen

by ACGIH.

## **SECTION 3: Composition/information on ingredients**

Synonyms : Polyalphaolefin

PAO

Molecular formula : UVCB

Component	CAS-No.	Weight %
1-Decene Homopolymer Hydrogenated	68037-01-4	100

Contains no hazardous ingredients according to GHS.

## **SECTION 4: First aid measures**

General advice : No hazards which require special first aid measures.

If inhaled : If unconscious place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses. Protect unharmed eye. If eye

irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

# **SECTION 5: Firefighting measures**

Flash point : 238 °C (460 °F)

Method: Cleveland Open Cup

Autoignition temperature : 354 °C (669 °F)

Special protective equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Standard procedure for chemical fires. Use extinguishing

measures that are appropriate to local circumstances and the

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surrounding environment.

Fire and explosion

protection

: Normal measures for preventive fire protection.

#### **SECTION 6: Accidental release measures**

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Keep in

suitable, closed containers for disposal.

## **SECTION 7: Handling and storage**

#### Handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and

drinking should be prohibited in the application area.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

## **Storage**

Requirements for storage areas and containers

: Electrical installations / working materials must comply with the

technological safety standards.

Advice on common storage : No materials to be especially mentioned.

#### SECTION 8: Exposure controls/personal protection

## **Engineering measures**

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Full-Face Air-Purifying Respirator for Organic Vapors, Dusts and Mists. Use a positive pressure, air-

supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate

protection.

Hand protection : The suitability for a specific workplace should be discussed

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with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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

Skin and body protection : Wear as appropriate:. Choose body protection in relation to its

type, to the concentration and amount of dangerous substances, and to the specific work-place. Lightweight

protective clothing.

Hygiene measures : General industrial hygiene practice.

# **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid

Color : Clear, Colorless

Odor : Odorless

Safety data

Flash point : 238 °C (460 °F)

Method: Cleveland Open Cup

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Oxidizing properties : no

Autoignition temperature : 354 °C (669 °F)

Molecular formula : UVCB

Molecular weight : Varies

pH : Not applicable

Melting point/range : Not applicable

Boiling point/boiling range : 419 °C (786 °F)

Vapor pressure : 0.70 MMHG

at 149 °C (300 °F)

Relative density : 0.83

at 15.6 °C (60.1 °F)

Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Partition coefficient: n- : No data available

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octanol/water

Viscosity, kinematic : 30.5 cSt

at 40 °C (104 °F)

Relative vapor density : 19

(Air = 1.0)

Evaporation rate : No data available

## **SECTION 10: Stability and reactivity**

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

# Possibility of hazardous reactions

Conditions to avoid : No data available.

Other data : No decomposition if stored and applied as directed.

# **SECTION 11: Toxicological information**

Acute oral toxicity

1-Decene Homopolymer : LD50 Oral: > 5,000 mg/kg

Hydrogenated Species: Rat

Acute inhalation toxicity

1-Decene Homopolymer : LC50: > 5.2 mg/l

Hydrogenated Exposure time: 4 h

Species: Rat

Test atmosphere: dust/mist

**Acute dermal toxicity** 

1-Decene Homopolymer : LD50: > 2,000 mg/kg

Hydrogenated Species: Rabbit

Skin irritation

1-Decene Homopolymer

Hydrogenated

: No skin irritation

Eye irritation

1-Decene Homopolymer

Hydrogenated

: No eye irritation

Sensitization

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1-Decene Homopolymer

Hydrogenated

: Did not cause sensitization on laboratory animals.

#### Repeated dose toxicity

1-Decene Homopolymer

Hydrogenated

Species: Rat

Application Route: Oral

Dose: 0, 8000, 20000, 50000 ppm

Exposure time: 28 day Number of exposures: daily

NOEL: 6,245 mg/kg

Method: OECD Test Guideline 407

Species: Rat

Application Route: oral gavage Dose: 0, 1000, 7000, 50000 ppm Exposure time: 13 weeks Number of exposures: daily NOEL: 4,159.4 mg/kg Method: OCED Guideline 408

#### Carcinogenicity

1-Decene Homopolymer

Hydrogenated

: Remarks: This information is not available.

### Reproductive toxicity

1-Decene Homopolymer

Hydrogenated

: Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg Number of exposures: daily Test period: 10 weeks

Method: OECD Test Guideline 415 NOAEL Parent: 1,000 mg/kg

#### **Aspiration toxicity**

1-Decene Homopolymer

Hydrogenated

: No aspiration toxicity classification.

## **CMR** effects

1-Decene Homopolymer

Hydrogenated

: Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Animal testing did not show any mutagenic

effects.

Teratogenicity: Not available

Reproductive toxicity: No toxicity to reproduction

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Further information : No data available.

#### **SECTION 12: Ecological information**

# **Ecotoxicity effects**

**Toxicity to fish** : LC50: > 750 mg/l

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Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

## Toxicity to daphnia and other aquatic invertebrates

1-Decene Homopolymer

Hydrogenated

: EL50: > 1,000 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

Toxicity to algae : EC50: > 1,000 mg/l

Exposure time: 96 h

Species: Selenastrum capricornutum (algae)

Bioaccumulation

1-Decene Homopolymer

Hydrogenated

: This material is not expected to bioaccumulate.

Biodegradability

1-Decene Homopolymer

Hydrogenated

: This material is not expected to be readily biodegradable.

Expected to be inherently biodegradable.

#### **Ecotoxicology Assessment**

Results of PBT assessment

1-Decene Homopolymer

Hydrogenated

: Non-classified PBT substance, Non-classified vPvB substance

Additional ecological

information

: No data available

## **SECTION 13: Disposal considerations**

The information in this SDS pertains only to the product as shipped.

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.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

## **SECTION 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 SDS and the

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bill of lading.

## **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

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

#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

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

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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

## ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

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

# RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

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

# ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### **SECTION 15: Regulatory information**

**National legislation** 

SARA 311/312 Hazards : No SARA Hazards

CERCLA Reportable

Quantity

: This material does not contain any components with a CERCLA

RQ.

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

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302 RQ.

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SARA 302 Threshold Planning Quantity

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Ingredients : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

Ozone-Depletion

Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **US State Regulations**

Pennsylvania Right To Know

: No components are subject to the Pennsylvania Right to Know

Act.

New Jersey Right To Know

: No components are subject to the New Jersey Right to Know

Act.

California Prop. 65

Ingredients

: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive

defects.

**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

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Canada DSL : On the inventory, or in compliance with the inventory Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory

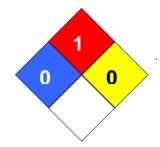
Notification number: HSR002606

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

#### **SECTION 16: Other information**

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



#### **Further information**

Legacy SDS Number : 3333

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

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

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%	
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level	
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency	
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health	
CNS	Central Nervous System	NTP	National Toxicology Program	
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals	
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level	
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration	
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration	
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit	
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of	

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	Chemical Substances		Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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