

Version 3.4 Revision Date 2018-08-03

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

**Product information** 

Product Name : Synfluid® PAO 4 cSt

Material : 1111739, 1111738, 1111733, 1079673, 1079928, 1079872,

1079835, 1079712, 1079702

#### EC-No.Registration number

| Chemical name                             | CAS-No.<br>EC-No.<br>Index No. | Legal Entity<br>Registration number                               |
|---|--------------------------------|---|
| 1-Decene,<br>homopolymer,<br>hydrogenated | 68037-01-4<br>500-183-1        | Chevron Phillips Chemical Company LP<br>01-2119486452-34-0000     |
| 1-Decene,<br>homopolymer,<br>hydrogenated | 68037-01-4<br>500-183-1        | Chevron Phillips Chemicals International NV 01-2119486452-34-0006 |

Relevant Identified Uses : Manufacture

Supported Use as an intermediate

Formulation

Use in coatings – industrial
Use in coatings – professional
Use in Coatings - Consumer
Lubricants - Industrial
Lubricants - Professional
Lubricants - Consumer

Metal working fluids / rolling oils - Industrial Metal working fluids / rolling oils - Professional

Functional Fluids - Industrial Functional Fluids - Professional Functional Fluids - Consumer

Use in polymer production - industrial

Agrochemical uses Other consumer uses

Company : Chevron Phillips Chemical Company LP

10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

Airport Plaza (Stockholm Building)

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Leonardo Da Vincilaan 19

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SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:sds@cpchem.com

#### **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: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

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 REGULATION (EC) No 1272/2008

Aspiration hazard, Category 1 H304:

May be fatal if swallowed and enters airways.

### **Label elements**

#### Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal Word : Danger

Hazard Statements : H304 May be fatal if swallowed and enters

airways.

Precautionary Statements : Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/doctor.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

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Hazardous ingredients which must be listed on the label:

• 68037-01-4 1-Decene, homopolymer, hydrogenated

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

Synonyms : Polyalphaolefin

PAO

Molecular formula : UVCB

#### Hazardous ingredients

| Chemical name                       | CAS-No.<br>EC-No.<br>Index No. | Classification<br>(REGULATION (EC) No<br>1272/2008) | Concentration<br>[wt%] |
|-------------------------------------|--------------------------------|---|------------------------|
| 1-Decene, homopolymer, hydrogenated | 68037-01-4<br>500-183-1        | Asp. Tox. 1; H304                                   | 100                    |

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

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

advice. If symptoms persist, call a physician.

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 : Do not ingest. If swallowed then seek immediate medical

assistance.

Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Take victim immediately to hospital.

#### **SECTION 5: Firefighting measures**

Flash point : 219 °C (426 °F)

Method: Cleveland Open Cup

Autoignition temperature : 343 °C (649 °F)

Unsuitable extinguishing

media

: High volume water jet.

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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

surrounding environment.

Fire and explosion

protection

: Normal measures for preventive fire protection.

#### **SECTION 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.

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

#### Handling

Advice on safe handling : Do not breathe vapors/dust. 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.

#### 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.

German storage class : Combustible liquids

## **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.

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#### 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:. Air-Purifying Respirator for Dusts and Mists / P100. 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

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 : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Protective suit.

Safety shoes.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

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

#### Information on basic physical and chemical properties

#### **Appearance**

Form : Liquid Physical state : Liquid

Color : Clear, Colorless

Odor : Odorless

Safety data

Flash point : 219 °C (426 °F)

Method: Cleveland Open Cup

Autoignition temperature : 343 °C (649 °F)

Molecular formula : UVCB

Boiling point/boiling range : 414 °C (777 °F)

Vapor pressure : 1,70 MMHG

at 177 °C (351 °F)

Relative density : 0,82

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at 15,6 °C (60,1 °F)

Viscosity, kinematic : 16 cSt

at 37,8 °C (100,0 °F)

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**

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Acute oral toxicity : LD50: > 5.000 mg/kg

Species: Rat

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Acute inhalation toxicity : LC50: > 5,2 mg/l

Exposure time: 4 h

Species: Rat

Sex: male and female Test atmosphere: dust/mist

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Acute dermal toxicity : LD50: > 2.000 mg/kg

Species: Rat

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**Skin irritation** : No skin irritation

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**Eye irritation** : No eye irritation

Sensitization

1-Decene, homopolymer,

hydrogenated

: Classification: Did not cause sensitization on laboratory

animals.

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**Aspiration toxicity** : May be fatal if swallowed and enters airways.

Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity

hazard.

**CMR** effects

1-Decene, homopolymer,

hydrogenated

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

effects.

Teratogenicity: Did not show teratogenic effects in animal

experiments.

Reproductive toxicity: No toxicity to reproduction

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

**Ecotoxicity effects** 

**Toxicity to fish** : LC50: > 1.000 mg/l

Exposure time: 96 h

Species: Salmo gairdneri (Rainbow trout)

LC50: > 750 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates

: EC50: 190 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

1-Decene, homopolymer,

hydrogenated

: NOELR: 1.000 mg/l Exposure time: 72 h

Species: Scenedesmus capricornutum (fresh water algae)

static test Method: OECD Test Guideline 201

Bioaccumulation

1-Decene, homopolymer,

hydrogenated

: This material is not expected to bioaccumulate.

Biodegradability

1-Decene, homopolymer,

hydrogenated

: Expected to be inherently biodegradable.

**Ecotoxicology Assessment** 

Results of PBT assessment

: This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Additional ecological

information

: No data available

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## **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.

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.

#### **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 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)

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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**

# **Chemical Safety Assessment**

**Ingredients** : 1-Decene, A Chemical Safety Assessment homopolymer, has been carried out for this

hydrogenated substance.

Major Accident Hazard : ZEU\_SEVES3 Update:

**Legislation** Not applicable

Notification status

Europe REACH : On the inventory, or in compliance with the inventory United States of America (USA) : On the inventory, or in compliance with the inventory

TSCA

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

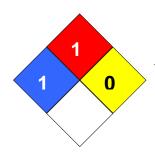
Notification number: HSR002606

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: 1

Fire Hazard: 1 Reactivity Hazard: 0



### **Further information**

Legacy SDS Number : 3332

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.

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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.

| k      | Key or legend to abbreviations and a                     | cronyms used | d 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<br>Level  |
| DSL    | Canada, Domestic Substances<br>List                      | NFPA         | National Fire Protection Agency  |
| NDSL   | Canada, Non-Domestic<br>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<br>Level  |
| EC50   | Effective Concentration 50%                              | NOEC         | No Observed Effect Concentration   |
| EGEST  | EOSCA Generic Exposure<br>Scenario Tool                  | OSHA         | Occupational Safety & Health Administration  |
| EOSCA  | European Oilfield Specialty Chemicals Association        | PEL          | Permissible Exposure Limit   |
| EINECS | European Inventory of Existing Chemical Substances       | PICCS        | Philippines Inventory of 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,<br>Complex Reaction Products, and<br>Biological Materials |
| <=     | Less Than or Equal To                                    | WHMIS        | Workplace Hazardous Materials<br>Information System  |
| LC50   | Lethal Concentration 50%                                 |              |  |

## Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

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