

# Synfluid® PAO 9 cSt

Version 1.8 Revision Date 2016-05-30

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

**Product information** 

Product Name : Synfluid® PAO 9 cSt Material : 1079853, 1079714

### EC-No.Registration number

Chemical name	CAS-No.	Legal Entity
	EC-No.	Registration number
	Index No.	
1-Dodecene, Trimer,	151006-62-1	Chevron Phillips Chemical Company LP
Hydrogenated	417-070-7	01-0000016388-62-0004
	601-064-00-8	
1-Dodecene,	151006-63-2	Chevron Phillips Chemical Company LP
Homopolymer,		01-0000018318-67-0002
Hydrogenated		

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)

Leonardo Da Vincilaan 19

1831 Diegem Belgium

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: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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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 REGULATION (EC) No 1272/2008

Chronic aquatic toxicity, Category 4 H413:

May cause long lasting harmful effects to aquatic

life.

### Label elements

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

Hazard Statements : H413 May cause long lasting harmful effects to

aquatic life.

Precautionary Statements : **Prevention**:

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

### **Additional Labeling:**

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 0 %

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

Synonyms : Polyalphaolefin

PAO

Molecular formula : UVCB

### **Mixtures**

### Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
1-Dodecene, Trimer, Hydrogenated	151006-62-1 417-070-7 601-064-00-8	Aquatic Chronic 4; H413	50 - 80

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

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### SECTION 4: First aid measures

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

case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air in case of accidental inhalation of vapors.

Consult a physician after significant exposure.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention. Wash off immediately with plenty of water.

In case of eye contact : Flush eyes with water as a precaution. Remove contact

lenses. Keep eye wide open while rinsing. If eye irritation

persists, consult a specialist.

If swallowed : If swallowed, DO NOT induce vomiting. Do not give milk or

alcoholic beverages. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

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

Flash point : 246 - 271 °C (475 - 520 °F)

Method: Cleveland Open Cup

Autoignition temperature : 351 °C (664 °F)

Suitable extinguishing

media

: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

fire. Cool closed containers exposed to fire with water spray.

Special protective

equipment for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

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

: Carbon oxides.

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

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Evacuate personnel to safe areas. Material can

create slippery conditions.

Environmental precautions : No special environmental precautions required.

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Methods for cleaning up : Keep in suitable, closed containers for disposal. Clean

contaminated floors and objects thoroughly while observing

environmental regulations.

Additional advice : No conditions to be specially mentioned.

### **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.

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

### **Engineering measures**

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.

In the case of vapor formation use a respirator with an

approved filter.

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.

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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:. Lightweight

protective clothing.

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

Wash hands before breaks and at the end of workday.

Protective measures : Wear suitable protective equipment. When using do not eat,

drink or smoke.

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

### Information on basic physical and chemical properties

**Appearance** 

Form : Liquid
Physical state : Liquid
Color : Colorless
Odor : Odorless

Safety data

Flash point : 246 - 271 °C (475 - 520 °F)

Method: Cleveland Open Cup

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : 351 °C (664 °F)

Molecular formula : UVCB

Molecular weight : Not applicable

pH : Not applicable

Pour point :  $< -30 \, ^{\circ}\text{C} \, (< -22 \, ^{\circ}\text{F})$ 

Boiling point/boiling range : > 260 °C (> 500 °F)

Vapor pressure : No data available

Density : 6,87 - 6,96 L/G

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

Viscosity, kinematic : 53 cSt

at 40 °C (104 °F) Method: ASTM D 445

Relative vapor density : No data available

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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.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: Carbon oxides

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

Information given is based on data obtained from similar

substances.

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Acute inhalation toxicity : LC50: > 5 mg/l

Exposure time: 4 h Species: Rat

Test atmosphere: dust/mist

Information given is based on data obtained from similar

substances.

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Acute dermal toxicity : LD50: > 2.000 mg/kg

Species: Rat

Information given is based on data obtained from similar

substances.

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**Skin irritation** : No skin irritation

Information given is based on data obtained from similar

substances.

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**Eye irritation** : No eye irritation

Information given is based on data obtained from similar

substances.

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**Sensitization** : Did not cause sensitization on laboratory animals.

Information given is based on data obtained from similar

substances.

Synfluid® PAO 9 cSt Repeated dose toxicity

Species: Rat, Male and female

Sex: Male and female

Application Route: oral gavage Dose: 0, 1000 mg/kg/day Exposure time: 28 days NOEL: 1.000 mg/kg

Method: OECD Test Guideline 407

Information given is based on data obtained from similar

substances.

Synfluid® PAO 9 cSt Aspiration toxicity Toxicology Assessment

: No aspiration toxicity classification.

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CMR effects : 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** : LL50: > 1.000 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

static test Test substance: no Method: OECD Test Guideline 203

Information given is based on data obtained from similar

substances.

Toxicity to daphnia and other aquatic invertebrates

: EL50: > 1.000 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

static test Test substance: no Method: OECD Test Guideline 202

Information given is based on data obtained from similar

substances.

Toxicity to algae : NOEC: > 1.000 mg/l

Exposure time: 96 h

Species: Selenastrum capricornutum (algae)

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Method: OECD Test Guideline 201

Information given is based on data obtained from similar

substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

: NOEC: 125 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: no

The product has low solubility in the test medium. An aqueous

dispersion was tested.

Information given is based on data obtained from similar

substances.

Elimination information (persistence and degradability)

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

Expected to be ultimately biodegradable

### **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 : Dispose of wastes in an approved waste disposal facility.

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)

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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** 

**Chemical Safety Assessment** 

**Ingredients** : 1-Dodecene,

Trimer,

Hydrogenated

**Chemical Safety Assessment** 

1-Dodecene, Homopolymer, Hydrogenated

Major Accident Hazard : 96/82/EC

**Legislation** Directive 96/82/EC does not apply

Water contaminating class : WGK 1 slightly water endangering

(Germany)

**Notification status** 

Europe REACH : This mixture contains only ingredients which have been

Update: 2003

registered according to Regulation (EU) No. 1907/2006

(REACH).

United States of America TSCA : On TSCA Inventory

Canada DSL : All components of this product are on the Canadian

DSL

Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory Japan ENCS : On the inventory, or in compliance with the inventory

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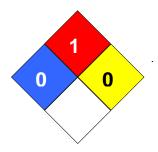
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Korea KECI : On the inventory, or in compliance with the inventory Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

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

NFPA Classification : Health Hazard: 0

Fire Hazard: 1
Reactivity Hazard: 0



### **Further information**

Legacy SDS Number : 5653

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 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			

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>=	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	TLV	Threshold Limit Value
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		Complex Reaction Products, and
			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials
			Information System
LC50	Lethal Concentration 50%		

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

H413 May cause long lasting harmful effects to aquatic life.

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