

Version 1.11 Revision Date 2024-10-15

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

**Product information** 

Product Name : Synfluid® PAO 9 cSt

Material : 1121045, 1079853, 1079714

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: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

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

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858:

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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.

## Classification

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Not a hazardous substance or mixture.

#### 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

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by NTP.

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

Synonyms : PAO

Polyalphaolefin

Molecular formula : UVCB

No hazardous ingredients

#### **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 : 262-276°C (504-529°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

: 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.

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.

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Environmental precautions : No special environmental precautions required.

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 : If ventilation or other engineering controls are not adequate to

maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved

respirator may be appropriate.

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.

is any indication of degradation of chemical breakthrough.

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

Skin and body protection : Choose body protection according to the amount and

concentration of the substance and the task performed at the

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work place. Appropriate PPE may include:. Lightweight

protective clothing.

Hygiene measures : General industrial hygiene practice.

## **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 : 262-276°C (504-529°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 : <-40°C (<-40°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

Evaporation rate : No data available

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

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**Reactivity** : Stable at normal ambient temperature and pressure.

**Chemical stability**: No decomposition if stored and applied as directed.

Possibility of hazardous reactions

**Hazardous reactions** : Further information: Stable under recommended storage

conditions., No hazards to be specially mentioned.

Conditions to avoid : No data available.

Materials to avoid

Hazardous decomposition

products

No data available.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

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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 Genotoxicity in vitro

: Test Type: Ames test

Result: negative

Remarks: Information refers to the main ingredient.

Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: Information refers to the main ingredient.

Synfluid® PAO 9 cSt Genotoxicity in vivo

: Test Type: Mouse micronucleus assay

Result: negative

Remarks: Information refers to the main ingredient.

Synfluid® PAO 9 cSt Reproductive toxicity

: Animal testing did not show any effects on fertility.

Information given is based on data obtained from similar

substances.

Synfluid® PAO 9 cSt Developmental Toxicity

: Animal testing did not show any effects on fetal development.

Information given is based on data obtained from similar

substances.

Synfluid® PAO 9 cSt Aspiration toxicity Toxicology Assessment

: No aspiration toxicity classification.

Synfluid® PAO 9 cSt CMR effects

: Carcinogenicity:

Contains no ingredient listed as a 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

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**Further information** : No data available.

## **SECTION 12: Ecological information**

#### **Ecotoxicity effects**

Biodegradability : Result: Expected to be inherently biodegradable.

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.

Mobility : No data available

Additional ecological

information

: No data available

**Ecotoxicology Assessment** 

Short-term (acute) aquatic

hazard

: This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic

hazard

This material is not expected to be harmful to aquatic

organisms.

## **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 bill of lading.

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

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

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## **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 ÓR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Other information : Polyolefin (molecular weight 300+), S.T. 2, Cat.Y

Maritime transport in bulk according to IMO instruments

#### **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

302 RQ.

SARA 302 Threshold Planning Quantity : This material does not contain any components with a section

302 EHS TPQ.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

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304 EHS RQ.

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SARA 313 Components : 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

Potential

Ozone-Depletion : 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 112 (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

: 1-Dodecene, Trimer, Hydrogenated - 151006-62-1

1-Dodecene, Homopolymer, Hydrogenated - 151006-63-2

Notification status

Europe REACH This product is in full compliance according to REACH

regulation 1907/2006/EC.

United States of America (USA) On or in compliance with the active portion of the

**TSCA** TSCA inventory

Canada DSL All components of this product are on the Canadian

Other AICS On the inventory, or in compliance with the inventory New Zealand NZIoC On the inventory, or in compliance with the inventory

On the inventory, or in compliance with the inventory Japan ENCS Korea KECI All substances in this product were registered, notified

to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was

included on CPChem's notifications or if the Importer of

Record themselves notified the substances.

Philippines PICCS On the inventory, or in compliance with the inventory

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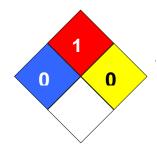
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China IECSC On the inventory, or in compliance with the inventory Taiwan TCSI On the inventory, or in compliance with the inventory

#### **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%
AIIC	Australian Inventory of Industrial Chemicals	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
>=	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
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	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%	ATE	Acute toxicity estimate

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