

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product information**

Product Name : Synfluid® PAO 5 cSt  
Material : 1070387, 1070389, 1073196, 1079665, 1079929, 1079873

**Company** : Chevron Phillips Chemical Company LP  
9500 Lakeside Blvd.  
The Woodlands, TX 77381

**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)

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

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**  
**GHS Classification and labelling according to JIS Z 7252-2019 and JIS Z 7253-2019 (GHS 2015)**

**Classification**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

**Labeling**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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

Synonyms : SYNTHETIC HYDROCARBON BASE OIL  
 OL6705  
 R6529  
 PAO  
 Polyalphaolefin

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

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 : 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 : 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.

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.

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

**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 airborne 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.

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 work place. Appropriate PPE may include: Lightweight protective clothing.

Hygiene measures : General industrial hygiene practice.

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

**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 : <-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 : 24.7 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**

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

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

- 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** : No data available.
- Hazardous decomposition products** : Carbon oxides
- Other data** : No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

- Synfluid® PAO 5 cSt**  
**Acute oral toxicity** : LD50: > 5,000 mg/kg  
Species: Rat  
Information given is based on data obtained from similar substances.
- Synfluid® PAO 5 cSt**  
**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.
- Synfluid® PAO 5 cSt**  
**Acute dermal toxicity** : LD50: > 2,000 mg/kg  
Species: Rat  
Information given is based on data obtained from similar substances.
- Synfluid® PAO 5 cSt**  
**Skin irritation** : No skin irritation  
Information given is based on data obtained from similar substances.
- Synfluid® PAO 5 cSt**  
**Eye irritation** : No eye irritation  
Information given is based on data obtained from similar substances.
- Synfluid® PAO 5 cSt**  
**Sensitization** : Did not cause sensitization on laboratory animals.  
Information given is based on data obtained from similar substances.
- Synfluid® PAO 5 cSt**  
**Repeated dose toxicity** : Species: Rat, Male and female

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

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 5 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 5 cSt  
Genotoxicity in vivo**

: Test Type: Mouse micronucleus assay  
Result: negative  
Remarks: Information refers to the main ingredient.

**Synfluid® PAO 5 cSt  
Reproductive toxicity**

: Animal testing did not show any effects on fertility.  
Information given is based on data obtained from similar substances.

**Synfluid® PAO 5 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 5 cSt  
Aspiration toxicity  
Toxicology Assessment**

: No aspiration toxicity classification.

**Synfluid® PAO 5 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

**Synfluid® PAO 5 cSt  
Further information**

: No data available.

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

**SECTION 12: Ecological information****Ecotoxicity effects**

**Toxicity to fish** : Not classified due to data which are conclusive although insufficient for classification.

**Toxicity to daphnia and other aquatic invertebrates** : Not classified due to data which are conclusive although insufficient for classification.

**Toxicity to algae** : Not classified due to data which are conclusive although insufficient for classification.

**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,



**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

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)**

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

<b>Other information</b>	<b>: Polyolefin (molecular weight 300+), S.T. 2, Cat.Y</b>
<b>Maritime transport in bulk according to IMO instruments</b>	

**SECTION 15: Regulatory information****National legislation****Poisonous and Deleterious Substances Control Law**

: Not applicable

**Industrial Safety and Health Law**

Substances Subject to be : Not applicable

Notified Names

Enforcement Order of the :

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

Industrial Safety and Health  
Law - Attached table 1  
(Dangerous Substances)

Harmful Substances Required	: Not applicable
Permission for Manufacture	
Hazardous Substances	: Not applicable
Subject to Labeling	
Requirements	
Ordinance on Prevention of	: Not applicable
Organic Solvent Poisoning	
Ordinance on Prevention of	: Not applicable
Lead Poisoning	
Harmful Substances	: Not applicable
Prohibited from Manufacture	
Ordinance on Prevention of	: Not applicable
Hazards Due to Specified	
Chemical Substances	
Ordinance on Prevention of	: Not applicable
Tetraalkyl Lead Poisoning	
	: Not applicable
	: Not applicable

Substances Prevented From	: Not applicable
Impairment of Health	Listed

**Chemical Substance Control Law**

: Not applicable for Specified Chemical Substance, Monitoring  
Chemical Substance and Priority Assessment Chemical  
Substance.

**Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof**

: Not applicable

**Other regulations**

Fire Service Law	: Flammable liquids Type 4 petroleums Hazardous rank III
High Pressure Gas Safety Act	: Not applicable
Explosive Control Law	: Not applicable
Vessel Safety Law	: Not regulated as a dangerous good
Aviation Law	: Not regulated as a dangerous good

**Notification status**

Europe REACH	: This product is in full compliance according to REACH
--------------	---

**Synfluid® PAO 5 cSt**

Version 1.13

Revision Date 2025-07-02

regulation 1907/2006/EC.	
United States of America (USA) TSCA	: On or in compliance with the active portion of the TSCA inventory
Canada DSL	: All components of this product are on the Canadian DSL
Other 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
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
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****Further information**

Legacy SDS Number : 5940

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%
AIRC	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

Synfluid® PAO 5 cSt

Version 1.13

Revision Date 2025-07-02

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%	ATE	Acute toxicity estimate