

# Synfluid® PAO 6 cSt

Version 1.17

Revision Date 2023-04-03

Product information Product Name Material	
	<ul> <li>Synfluid® PAO 6 cSt</li> <li>1111741, 1111740, 1111734, 1079874, 1079931, 1079667</li> </ul>
Company	<ul> <li>Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380</li> </ul>
Emergency telephone:	
Asia: CHEMWATCH ( Mexico CHEMTREC 0 South America SOS-C Argentina: +(54)-1159 EUROPE: BIG +32.14 Austria: VIZ +43 1 406 Belgium: 070 245 245 Bulgaria: +359 2 9154 Croatia: +3851 2348 3 Cyprus: 1401 Czech Republic: Toxic Denmark: Danish Pois Estonia: BIG +32.14.5 Finland: 0800 147 111 France: ORFILA numb Germany: BIG +32.14.5 Greece: (0030) 21077 Hungary: +36-80-201- Iceland: 543 2222 (24 Ireland: BIG +32.14.58	nal) 0 or 703.527.3887(int'l) 2 9186 1132) China: 0532 8388 9090 00-681-9531 (24 hours) c Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 431 545 (phone) or +32.14583516 (telefax) 43 (24 hours/day, 7 days/week) hours/day, 7 days/week) 24 hours/day, 7 days/week) ic 24 hours/day, 7 days/week) ic 24 hours/day, 7 days/week) ic 15 (phone) or +32.14583516 (telefax) 471 977 (24 hours/day) INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 545 (phone) or +32.14583516 (telefax) 471 977 (24 hours/day) INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 545 (phone) or +32.14583516 (telefax) 77 (24 hours/day, 7 days/week) (24 hours/day, 7 days/week) (24 hours/day, 7 days/week)

SAFETY DATA SHEET

Version 1.17

Revision Date 2023-04-03

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

#### **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

SDS Number:100000010952

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

#### Labeling

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

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

Synonyms		Polyalphaolefin PAO		
Molecular formula	:	UVCB		
Chemical name		CAS-No.	Concentration	ENCS/ISHL number
1-Decene Homopolymer Hydrogenated		68037-01-4	100%	(6)-1109
Contains no hazardous ing	redien	ts according to G	HS.	
CTION 4: First aid measure	S			
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.

2/12

Version 1.17

Revision Date 2023-04-03

SECTION 5: Firefighting measures			
Flash point	:	239-258°C (462-496°F) Method: ASTM D-92	
Autoignition temperature	:	354°C (669°F)	
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Specific hazards during fire fighting	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
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	me	asures	
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.	
SECTION 7: Handling and stora	ge		
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.	
SDS Number:100000010952		3/12	

## Synfluid® PAO 6 cSt

Version 1.17

Revision Date 2023-04-03

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.
	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.
S	SECTION 9: Physical and cher	nica	I properties
	Information on basic phys	sical	and chemical properties
	Appearance		
	Physical state Color Odor		: liquid : Clear, Colorless : Odorless

239-258°C (462-496°F) Method: ASTM D-92

#### Safety data

Flash point	:
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Lower explosion limit : Not applicable

SDS Number:100000010952

# SAFETY DATA SHEET Synfluid® PAO 6 cSt Version 1.17 Revision Date 2023-04-03 Upper explosion limit : Not applicable Flammability (solid, gas) : Oxidizing properties : no Autoignition temperature : 354°C (669°F) Thermal decomposition : No data available Molecular formula : UVCB Molecular weight : Varies

рН	: Not applicable
Pour point	: No data available
Melting point/freezing point	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- octanol/water	: No data available
Viscosity, kinematic	: 30.5 cSt at 40°C (104°F)
Relative vapor density	: 10 (Air = 1.0)
Evaporation rate	: No data available

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

Reactivity	: Stable at normal ambient temperature and pressure.	
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
Possibility of hazardous re	eactions	
SDS Number:100000010952	5/12	

nfluid® PAO 6 cSt	SAFETY DATA SHEE
rsion 1.17	Revision Date 2023-04-0
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.
Thermal decomposition	: No data available
Hazardous decomposition products	: Carbon oxides
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological infor	mation
Acute oral toxicity	
1-Decene Homopolymer Hydrogenated	: LD50 Oral: > 5,000 mg/kg Species: Rat
Acute inhalation toxicity	
1-Decene Homopolymer Hydrogenated	: LC50: > 5.2 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist
Acute dermal toxicity	
1-Decene Homopolymer Hydrogenated	: LD50: > 2,000 mg/kg Species: Rabbit
Synfluid® PAO 6 cSt Skin irritation	: No skin irritation.
Synfluid® PAO 6 cSt	
Eye irritation	: No eye irritation.
Sensitization	
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
S Number:100000010952	6/12

7

#### SAFETY DATA SHEET Synfluid® PAO 6 cSt Version 1.17 Revision Date 2023-04-03 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 Genotoxicity in vitro 1-Decene Homopolymer : Remarks: No adverse effects expected, Information given is based on data obtained from similar substances. Hydrogenated Genotoxicity in vivo 1-Decene Homopolymer : Remarks: No adverse effects expected, Information given is based on data obtained from similar substances. Hydrogenated Carcinogenicity : Remarks: This information is not available. 1-Decene Homopolymer Hydrogenated **Reproductive toxicity** 1-Decene Homopolymer : Species: Rat Hydrogenated 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 **Developmental Toxicity** 1-Decene Homopolymer : Animal testing did not show any effects on fetal development. Information given is based on data obtained from similar Hydrogenated substances. Aspiration toxicity 1-Decene Homopolymer : No aspiration toxicity classification. Hydrogenated **CMR** effects 1-Decene Homopolymer : Carcinogenicity: Not classifiable as a human carcinogen. Hydrogenated Mutagenicity: Animal testing did not show any mutagenic effects. Teratogenicity: no developmental effects Reproductive toxicity: No toxicity to reproduction Synfluid® PAO 6 cSt Further information : No data available. SDS Number:100000010952 7/12

Version 1.17

SAFETY DATA SHEET

Revision Date 2023-04-03

TION 12: Ecological informa	
Ecotoxicity effects	
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Toxicity to fish	: LC50: > 750 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and othe	er aquatic invertebrates
1-Decene Homopolymer Hydrogenated	<ul> <li>EL50: &gt; 1,000 mg/l Exposure time: 48 h</li> <li>Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202</li> </ul>
Toxicity to algae	: EC50: > 1,000 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (algae)
Biodegradability	: Result: No data available
Elimination information (persis	stence and degradability)
Bioaccumulation	
1-Decene Homopolymer Hydrogenated	: This material is not expected to bioaccumulate.
Mobility	: No data available
Results of PBT assessment 1-Decene Homopolymer Hydrogenated	: Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information Ecotoxicology Assessment	: No data available
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.
TION 13: Disposal considera	ations
The information in this SDS po	ertains only to the product as shipped.
Number:100000010952	8/12

SAFETY DATA SHEET

Version 1.17

Revision Date 2023-04-03

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.

#### 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.

SDS Number:100000010952

9/12

Synfluid<sup>®</sup> PAO 6 cSt Version 1.17 Revision Date 2023-04-03 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 **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 ÷ 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 SDS Number:100000010952 10/12

	SAFETY DATA SHEE
Synfluid® PAO 6 cSt	
/ersion 1.17	Revision Date 2023-04-0
Fire Service Law	: Not applicable to dangerous materials / designated flammables.
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 Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS Taiwan TCSI China IECSC	<ul> <li>This product is in full compliance according to REACH regulation 1907/2006/EC.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On or in compliance with the active portion of the TSCA inventory</li> <li>All components of this product are on the Canadian DSL</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory Notification number: HSR002606</li> <li>On the inventory, or in compliance with the inventory</li> <li>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.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> </ul>
ECTION 16: Other information Further information Legacy SDS Number :	3333
NSF H1, HX-1 Registered, meets	s USDA 1998 H1 Guidelines
Significant changes since the las previous versions.	t version are highlighted in the margin. This version replaces all
The information in this SDS perta	ains only to the product as shipped.
information and belief at the date guidance for safe handling, use,	Safety Data Sheet is correct to the best of our knowledge, of its publication. The information given is designed only as a processing, storage, transportation, disposal and release and is or quality specification. The information relates only to the

SDS Number:100000010952

11/12

# Synfluid® PAO 6 cSt

Version 1.17

Revision Date 2023-04-03

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.

ĸ	Key or legend to abbreviations and a	cronvms use	d 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 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

SDS Number:100000010952