## SAFETY DATA SHEET



## Synfluid® PAO 8 cSt

Version 1.20

Revision Date 2025-04-02

Product information	
Product Name Material	: Synfluid® PAO 8 cSt : 1111743, 1111742, 1111735, 1079836, 1079942, 1079666
Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephon	ie:
Asia: CHEMWATC Mexico CHEMTRE South America SO Argentina: +(54)-11 EUROPE: BIG +32 Austria: VIZ +43 1 Belgium: 070 245 2 Bulgaria: +359 2 9 Croatia: +3851 234 Cyprus: 1401 Czech Republic: To Denmark: Danish F Estonia: BIG +32.1	424.9300 or 703.527.3887(int'l) CH (+612 9186 1132) China: 0532 8388 9090 CC 01-800-681-9531 (24 hours) S-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 159839431 2.14.584545 (phone) or +32.14583516 (telefax) 406 43 43 (24 hours/day, 7 days/week) 245 (24 hours/day, 7 days/week)

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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 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

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

SECTION 3: Composition/infor	mat	ion on ingredient	ts		
Synonyms	:	Polyalphaolefin PAO			
Molecular formula	:	Polymer			
Chemical name		CAS-No.	Concentration	ENCS/ISHL number	
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1-Decene Homopolymer Hydrogenated Contains no hazardous ingre	die	68037-01-4         100%         9-2375 (6)-1109 9- 3416           nts according to GHS.	
TION 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 physiciar	
FION 5: Firefighting measu	res	;	
Flash point	:	252-265°C (486-509°F) Method: ASTM D-92	
Autoignition temperature	:	369°C (696°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.	Э
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.	Э
Fire and explosion protection	:	Normal measures for preventive fire protection.	
Hazardous decomposition products	:	Carbon oxides.	
TION 6: Accidental release	me	easures	
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.	
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TION 7: Handling and stor	rage	
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.
TION 8: Exposure control	-	
		irborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job
Adequate ventilation to con Consider the potential haza activities, and other substar personal protective equipm exposure to harmful levels recommended. The user s	ards o nces ent. of this hould tion is	of this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selectin If engineering controls or work practices are not adequate to preve is material, the personal protective equipment listed below is I read and understand all instructions and limitations supplied with is usually provided for a limited time or under certain circumstances
Adequate ventilation to con Consider the potential haza activities, and other substan personal protective equipm exposure to harmful levels recommended. The user s the equipment since protec	ards o nces i ent. of this hould tion is	of this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selectin If engineering controls or work practices are not adequate to preve is material, the personal protective equipment listed below is I read and understand all instructions and limitations supplied with is usually provided for a limited time or under certain circumstances
Adequate ventilation to con Consider the potential haza activities, and other substan personal protective equipm exposure to harmful levels recommended. The user s the equipment since protec <b>Personal protective equip</b>	ards o nces i ent. of this hould tion is	of this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selection of engineering controls or work practices are not adequate to prevent is material, the personal protective equipment listed below is a read and understand all instructions and limitations supplied with is usually provided for a limited time or under certain circumstances t 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

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.

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## SECTION 9: Physical and chemical properties

Physical state Color Odor	: liquid : Clear, Colorless : Odorless
Safety data	
Flash point	: 252-265°C (486-509°F) Method: ASTM D-92
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flammability (solid, gas) Oxidizing properties	: : no
Autoignition temperature	: 369°C (696°F)
Thermal decomposition	: No data available
Molecular formula	: Polymer
Molecular weight	: Varies
рН	: Not applicable
Pour point	: No data available
Melting point/freezing point	Not applicable
Boiling point/boiling range	: 430°C (806°F)
Vapor pressure	: 0.10 MMHG at 232°C (450°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	: 46 cSt at 40°C (104°F)
Relative vapor density	: 10 (Air = 1.0)
Evaporation rate	: 3 Method: ASTM D5800

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TION 10: Stability and reacting	vity
Reactivity	: Stable at normal ambient temperature and pressure.
Reactivity	
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ctions
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.
TION 11: Toxicological infor	mation
Synfluid® PAO 8 cSt Acute oral toxicity	: LD50 Oral: > 5,000 mg/kg Species: Rat
Synfluid® PAO 8 cSt Acute inhalation toxicity	: LC50: > 5.2 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist
Synfluid® PAO 8 cSt Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rabbit
Synfluid® PAO 8 cSt Skin irritation	: No skin irritation
Synfluid® PAO 8 cSt Skin irritation Synfluid® PAO 8 cSt Eye irritation	: No skin irritation : No eye irritation

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Synfluid® PAO 8 cSt Sensitization	: 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
	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
Synfluid® PAO 8 cSt Genotoxicity in vitro	: Remarks: No adverse effects expected, Information given is based on data obtained from similar substances.
Synfluid® PAO 8 cSt Genotoxicity in vivo	: Remarks: No adverse effects expected, Information given is based on data obtained from similar substances.
Synfluid® PAO 8 cSt Carcinogenicity	: Remarks: This information is not available.
Reproductive toxicity	
1-Decene Homopolymer Hydrogenated	: Species: Rat 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 Hydrogenated	: Animal testing did not show any effects on fetal development. Information given is based on data obtained from similar substances.
Aspiration toxicity	
1-Decene Homopolymer Hydrogenated <b>Toxicology Assessment</b>	: No aspiration toxicity classification.
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Synfluid® PAO 8 cSt CMR effects	: Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Animal testing did not show any mutagenic effects. Teratogenicity: no developmental effects Reproductive toxicity: No toxicity to reproduction
Synfluid® PAO 8 cSt Further information	: No data available.
SECTION 12: Ecological informat	ion
Ecotoxicity effects	
Toxicity to fish	: LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates	: EL50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202
Toxicity to algae	<ul> <li>NOELR: 1,000 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) static test Method: OECD Test Guideline 201</li> </ul>
Biodegradability	: This material is not expected to be readily biodegradable. Expected to be inherently biodegradable.
Elimination information (persist	tence and degradability)
Bioaccumulation	: This material is not expected to bioaccumulate.
Mobility	: No data available
Results of PBT assessment 1-Decene Homopolymer Hydrogenated Additional ecological information <b>Ecotoxicology Assessment</b>	<ul> <li>Non-classified PBT substance, Non-classified vPvB substance</li> <li>No data available</li> </ul>
Short-term (acute) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
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Long-term (chronic) aquatic : 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.

### 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.

# 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 Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)	: Not applicable
Harmful Substances Required	: Not applicable
Permission for Manufacture Hazardous Substances Subject to Labeling Requirements	: Not applicable
Ordinance on Prevention of Organic Solvent Poisoning	: Not applicable
Ordinance on Prevention of	: Not applicable
Lead Poisoning Harmful Substances	: Not applicable
Prohibited from Manufacture Ordinance on Prevention of Hazards Due to Specified	: Not applicable
Chemical Substances Ordinance on Prevention of	: Not applicable
Tetraalkyl Lead Poisoning	: Not applicable
	: Not applicable
Substances Prevented From Impairment of Health	: Not applicable Listed
Chemical Substance Control	Law
	: Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

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	: Not applicable
Other regulations	
Fire Service Law	: Not applicable to dangerous materials / designated flammabl
Fire Service Law	: Designated Flammable Substances Flammable liquid
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	<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 o Record themselves notified the substances.</li> </ul>
Philippines PICCS Taiwan TCSI China IECSC	<ul><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>
CTION 16: Other information	
Further information	
Legacy SDS Number :	3334
NSF H1, HX-1 Registered, mee	ts USDA 1998 H1 Guidelines
Significant changes since the la previous versions.	st version are highlighted in the margin. This version replaces all

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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.

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 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