SAFETY DATA SHEET



Synfluid® PAO 4 cSt

Version 1.18

Revision Date 2024-04-24

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product information** Product Name : Svnfluid® PAO 4 cSt : 1126174, 1111739, 1111738, 1111733, 1079673, 1079928, Material 1079872, 1079835, 1079702 Use : Synthetic Lubricants 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) SDS Number:100000010950 1/12

SAFETY DATA SHEET

Version 1.18

Revision Date 2024-04-24

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 SDS@CPChem.com E-mail address 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 : Aspiration hazard, Category 1 Labeling Symbol(s)

Signal Word

Hazard Statements

: H304: May be fatal if swallowed and enters airways.

Precautionary Statements : **Response:** P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331: Do NOT induce vomiting.

Danger

SDS Number:100000010950

SAFETY DATA SHEET

Synfluid® PAO 4 cSt

Version 1.18

Revision Date 2024-04-24

P405: Store locked up. Disposal: P501: Dispose of contents/ container to an approved waste disposal plant. SECTION 3: Composition/information on ingredients

: Polyalphaolefin PAO

Molecular formula :	UVCB		
Chemical name	CAS-No.	Concentration	ENCS/ISHL number
1-Decene, homopolymer, hydrogenated	68037-01-4	100%	(6)-1109

SECTION 4: First aid measures

General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. 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. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point	:	219°C (426°F) Method: Cleveland Open Cup
Autoignition temperature	:	343°C (649°F)
Unsuitable extinguishing media	:	High volume water jet.
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.
SDS Number:100000010950		3/12

ynfluid® PAO 4 cSt		SAFETY DATA SHEE	
ersion 1.18		Revision Date 2024-04-2	
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.	
ECTION 6: Accidental release	me	asures	
Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation.	
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.	
Methods for cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.	
ECTION 7: Handling and stora	ige		
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.	
Use	:	Synthetic Lubricants	
ECTION 8: Exposure controls	/per	sonal protection	
	-		
Engineering measures			
Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels of	ds o ces nt. f this	irborned concentrations below the exposure guidelines/limits. If 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 read and understand all instructions and limitations supplied with	

SDS Number:100000010950

4/12

Version 1.18

SAFETY DATA SHEET

Revision Date 2024-04-24

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. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Dusts and Mists / P100. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
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 in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Protective suit. Safety shoes.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
TION 9: Physical and chen	nical properties
Information on basic phys	ical and chemical properties
Appearance	
Form Physical state	: liquid : liquid
Color Odor	: Clear, colorless : Odorless
	. Outress
Safety data	
Flash point	: 219°C (426°F) Method: Cleveland Open Cup
Lower explosion limit	: No data available
	: No data available
Upper explosion limit	
Upper explosion limit Autoignition temperature	: 343°C (649°F)
	: 343°C (649°F) : UVCB

nfluid® PAO 4 cSt	SAFETY DATA SHE	
rsion 1.18	Revision Date 2024-04-	
Vapor pressure	: 1.70 MMHG at 177°C (351°F)	
Relative density	: 0.82 at 15.6 °C (60.1 °F)	
Viscosity, kinematic	: 16 cSt at 37.8°C (100.0°F)	
Evaporation rate	No data available	
CTION 10: Stability and reactive	vity	
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 rea	ctions	
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.	
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.	
CTION 11: Toxicological infor	mation	
Synfluid® PAO 4 cSt Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat	
Synfluid® PAO 4 cSt Acute inhalation toxicity	: LC50: > 5.2 mg/l Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: dust/mist	
Synfluid® PAO 4 cSt Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rat	

Version 1.18

SAFETY DATA SHEET

Revision Date 2024-04-24

Synfluid® PAO 4 cSt Skin irritation	: No skin irritation
Synfluid® PAO 4 cSt Eye irritation	: No eye irritation
Sensitization	
1-Decene, homopolymer, hydrogenated	: Classification: Did not cause sensitization on laboratory animals.
Synfluid® PAO 4 cSt Repeated dose toxicity	: No adverse effects expected
Synfluid® PAO 4 cSt Genotoxicity in vitro	: Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative
Synfluid® PAO 4 cSt Genotoxicity in vivo	: Remarks: Not classified due to data which are conclusive although insufficient for classification., Based on data from similar materials
Synfluid® PAO 4 cSt Reproductive toxicity	: Animal testing did not show any effects on fertility. Based on data from similar materials
Synfluid® PAO 4 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 4 cSt Aspiration toxicity	: May be fatal if swallowed and enters airways.
CMR effects	
1-Decene, homopolymer, hydrogenated	 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
Synfluid® PAO 4 cSt Further information	: Solvents may degrease the skin.
S Number:100000010950	7/12

Version 1.18

SAFETY DATA SHEET

Revision Date 2024-04-24

CTION 12: Ecological informat	tion
Ecotoxicity effects	
Toxicity to fish	: LC50: > 1,000 mg/l Exposure time: 96 h Species: Salmo gairdneri (Rainbow trout)
	LC50: > 750 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates	: EC50: 190 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	
1-Decene, homopolymer, hydrogenated	 NOELR: 1,000 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) static test Method: OECD Test Guideline 201
Biodegradability	: Expected to be inherently biodegradable.
Elimination information (persis	tence and degradability)
Bioaccumulation	: 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	: 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.
CTION 13: Disposal considera	tions
The information in this SDS pe	ertains only to the product as shipped.

ynfluid® PAO 4 cSt	SAFETY DATA SHEE
ersion 1.18	Revision Date 2024-04-2
Use material for its intended purp may meet the criteria of a hazard other State and local regulations regulated components may be n	pose or recycle if possible. This material, if it must be discarded, dous waste as defined by US EPA under RCRA (40 CFR 261) or s. Measurement of certain physical properties and analysis for recessary to make a correct determination. If this material is , federal law requires disposal at a licensed hazardous waste
Product :	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
ECTION 14: Transport information	n
The shipping descriptions sho shipments in non-bulk packag	own here are for bulk shipments only, and may not apply to les (see regulatory definition).
Goods Regulations for additiona etc.) Therefore, the information	c or international mode-specific and quantity-specific Dangerous I shipping description requirements (e.g., technical name or names shown here, may not always agree with the bill of lading shipping shpoints for the material may vary slightly between the SDS and the
NOT REGULATED AS A HAI TRANSPORTATION BY THIS IMO / IMDG (INTERNATIONAL	PARTMENT OF TRANSPORTATION) ZARDOUS MATERIAL OR DANGEROUS GOODS FOR S AGENCY. MARITIME DANGEROUS GOODS) ZARDOUS MATERIAL OR DANGEROUS GOODS FOR
TRANSPORTATION BY THIS IATA (INTERNATIONAL AIR TE NOT REGULATED AS A HAS TRANSPORTATION BY THIS	RANSPORT ASSOCIATION) ZARDOUS MATERIAL OR DANGEROUS GOODS FOR
ADR (AGREEMENT ON DANG	EROUS GOODS BY ROAD (EUROPE)) ZARDOUS MATERIAL OR DANGEROUS GOODS FOR
DANGEROUS GOODS (EUROP	ZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS BY	ZARDOUS MATERIAL OR DANGEROUS GOODS FOR

Version 1.18

Revision Date 2024-04-24

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	:	Not applicable
Organic Solvent Poisoning Ordinance on Prevention of Lead Poisoning	:	Not applicable
Harmful Substances	:	Not applicable
Prohibited from Manufacture Ordinance on Prevention of Hazards Due to Specified Chemical Substances	:	Not applicable
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

SDS Number:100000010950

ynfluid® PAO 4 cSt	SAFETY DATA SHE		
ersion 1.18	Revision Date 2024-04		
	: 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 Switzerland CH INV United States of America (USA) TSCA Canada DSL Other AICS New Zealand NZIoC Japan ENCS Korea KECI	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 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 China IECSC Taiwan TCSI	On the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventoryOn the inventory, or in compliance with the inventory		
ECTION 16: Other information			
Further informationLegacy SDS Number:	3332		
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		

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

SDS Number:100000010950

11/12

Version 1.18

Revision Date 2024-04-24

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.

K	ey or legend to abbreviations and a	cronyms 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:100000010950