SAFETY DATA SHEET



Synfluid® PAO 2 cSt

Version 1.11

Revision Date 2022-09-19

according to GB/T 16483 and GB/T 17519

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

Product information		
Product Name Material	: 111173	d® PAO 2 cSt 37, 1111736, 1111732, 1082190, 1079695, 1079661, 51, 1079671
Use	: Synthe	tic Lubricants
Company	10001	n Phillips Chemical Company LP Six Pines Drive podlands, TX 77380
Emergency telephone:		
Mexico CHEMTREC 01 South America SOS-Co Argentina: +(54)-11598 EUROPE: BIG +32.14.5 Austria: VIZ +43 1 406 4 Belgium: 070 245 245 (2 Bulgaria: +359 2 9154 2 Croatia: +3851 2348 34 Cyprus: 1401 Czech Republic: Toxico Denmark: Danish Poiso Estonia: BIG +32.14.58 Finland: 0800 147 111	612 9186 1133 -800-681-953 otec Inside Bra 39431 584545 (phone 43 43 (24 hours/day, 233 2 (24 hours/day, 233 2 (24 hours/day, 233 2 (24 hours/day, 233 2 (24 hours/day, 24 hours/day, 253 2 (1000000000000000000000000000000000000	 2) China: 0532 8388 9090 1 (24 hours) 2 (24 hours) 3 (2) (24 hours) 2 (24 hours) 3 (2) (24 hours)
Iceland: 543 2222 (24 h	99 (24 hours/c ours/day, 7 da I545 (phone) c	s/day, 7 days/week) day, 7 days/week) ays/week) or +32.14583516 (telefax)

SAFETY DATA SHEET

Synfluid® PAO 2 cSt

Poisoning and Drug Informatio 67042473. (24 hours.)	Revision Date 2022-09-19 Service, phone number: 112; Toxicology and Sepsis Clinic
Poisoning and Drug Informatio 67042473. (24 hours.) Liechtenstein: BIG +32.14.5845 Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 Malta: +356 2395 2000	
Luxembourg: (+352) 8002 5500 Malta: +356 2395 2000	n Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 545 (phone) or +32.14583516 (telefax)
) (24 hours/day, 7 days/week)
	,
Portugal: CIAV phone number:	none) or +32.14583516 (telefax)
Romania: +40213183606 Slovakia: +421 2 5477 4166	
hours/day, 7 days/week)	ephone Number of Spanish Poison Centre: +34 91 562 04 20 (24
Sweden: 112 – ask for Poisons	Information
Responsible Department : F	Product Safety and Toxicology Group
E-mail address : S	SDS@CPChem.com
ECTION 2: Hazards identification	
Emergency Overview Danger	
Danger Physical state: liquid Color:	Clear, Colorless Odor : Odorless
Danger Physical state: liquid Color:	Clear, Colorless Odor : Odorless armful if inhaled. May be fatal if swallowed and enters airways.
Danger Physical state: liquid Color:	
Danger Physical state: liquid Color: Hazards : Ha Classification	
Danger Physical state: liquid Color: Hazards : Ha Classification	armful if inhaled. May be fatal if swallowed and enters airways. Acute toxicity, Category 4, Inhalation
Danger Physical state: liquid Color: Hazards : Ha Classification	armful if inhaled. May be fatal if swallowed and enters airways. Acute toxicity, Category 4, Inhalation
Danger Physical state: liquid Color: Hazards : Ha Classification : Labeling	armful if inhaled. May be fatal if swallowed and enters airways. Acute toxicity, Category 4, Inhalation
Danger Physical state: liquid Color: Hazards : Hazards Classification : Labeling : Symbol(s) : Signal Word :	Acute toxicity, Category 4, Inhalation Aspiration hazard, Category 1
Danger Physical state: liquid Color: Hazards : Hi Classification : Labeling : Symbol(s) : Signal Word :	Acute toxicity, Category 4, Inhalation Aspiration hazard, Category 1

nfluid® PAO 2 cSt			SAFETY DATA SHEE
sion 1.11			Revision Date 2022-09-
		CENTER/doctor. P304 + P340 + P312: IF INHALED: air and keep comfortable for breathing CENTER/ doctor if you feel unwell. P331: Do NOT induce vomiting. Storage: P405: Store locked up. Disposal: P501: Dispose of contents/ contained disposal plant.	g. Call a POISON
CTION 3: Composition/info	rmatio	n on ingredients	
Synonyms	S F F	-Decene, Dimer, Hydrogenated Synfluid PAO 2 CST PAO 2 MIL Polyalphaolefin PAO	
Molecular formula	: l	JVCB	
Chemical name		CAS-No. / EINECS-No.	Concentration [wt%]
1-Decene, Dimer, Hydroge	enated	68649-11-6	100
CTION 4: First aid measure	S		
General advice	S	Nove out of dangerous area. Show this heet to the doctor in attendance. Mate erious, potentially fatal pneumonia if s	erial may produce a
If inhaled		Consult a physician after significant exp lace in recovery position and seek me	
In case of eye contact	le	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	a	Keep respiratory tract clear. Never give in unconscious person. If symptoms p Take victim immediately to hospital.	
CTION 5: Firefighting meas	ures		
Flash point		160°C (320°F) /ethod: Cleveland Open Cup	
Autoignition temperature	: :	324°C (615°F)	
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ynfluid® PAO 2 cSt		SAFETY DATA SHEE	
ersion 1.11		Revision Date 2022-09-1	
Unsuitable extinguishing media	:	High volume water jet.	
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.	
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	:	Avoid formation of aerosol. Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. 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	
ot applicable	_		
Engineering measures			

SAFETY DATA SHEET

Version 1.11

Revision Date 2022-09-19

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. 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.

SECTION 9: Physical and chemical properties

Appearance		
Physical state Color Odor Odor Threshold	 liquid Clear, Colorless Odorless No data available 	
Safety data		
Flash point	: 160°C (320°F) Method: Cleveland Open Cup	
Lower explosion limit	: Not applicable	
Number:100000010948	5/11	

Version 1.11

Revision Date 2022-09-19

Upper explosion limit	: Not applicable	
Flammability (solid, gas) Oxidizing properties	: : no	
Autoignition temperature	324°C (615°F)	
Molecular formula	UVCB	
Molecular weight	: Varies	
рН	: Not applicable	
Melting point/freezing point	: -73°C (-99°F)	
Boiling point/boiling range	: 223°C (433°F)	
Vapor pressure	: 1.00 MMHG at 75°C (167°F)	
Relative density	: 0.8 at 15.6 °C (60.1 °F)	
Density	: 795.7 g/l	
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.	
Partition coefficient: n-	No data available	
octanol/water Relative vapor density	: 9 (Air = 1.0)	
Evaporation rate	: No data available	
TION 10: Stability and react	ivity	
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	actions	
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.	
	Further information: No decomposition if stored and applied as directed.	
Number:100000010948	6/11	

nfluid® PAO 2 cSt	SAFETY DATA SH
sion 1.11	Revision Date 2022-0
Conditions to avoid	: No data available.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as
Hazardous decomposition products	chlorates, nitrates, peroxides, etc. : Carbon oxides
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological infor	mation
Synfluid® PAO 2 cSt Acute oral toxicity	: LD50: >5000 mg/kg Species: Rat Sex: male and female
Synfluid® PAO 2 cSt Acute inhalation toxicity	: LC50: 1.17 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist
Synfluid® PAO 2 cSt Acute dermal toxicity	: LD50: > 3 g/kg Species: Rabbit Sex: Not Specified
Synfluid® PAO 2 cSt Skin irritation	: No skin irritation
Synfluid® PAO 2 cSt Eye irritation	: No eye irritation
Synfluid® PAO 2 cSt Sensitization	: Did not cause sensitization on laboratory animals.
Synfluid® PAO 2 cSt Aspiration toxicity	: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
CMR effects	
1-Decene, Dimer, Hydrogenated	: Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Contains no ingredient listed as a mutagen Teratogenicity: No toxicity to reproduction Reproductive toxicity: No toxicity to reproduction
Synfluid® PAO 2 cSt Further information	: No data available.
Number:100000010948	7/11

Version 1.11

SAFETY DATA SHEET

Revision Date 2022-09-19

CTION 12: Ecological inform	
Ecotoxicity effects Toxicity to fish	
1-Decene, Dimer, Hydrogenated	 LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to daphnia and o	ther aquatic invertebrates
1-Decene, Dimer, Hydrogenated	 EL50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to algae	
1-Decene, Dimer, Hydrogenated	 EL50: > 1,000 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) static test Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to daphnia and o	ther aquatic invertebrates (Chronic toxicity)
Toxicity to daphnia and o 1-Decene, Dimer, Hydrogenated	
1-Decene, Dimer,	 ther aquatic invertebrates (Chronic toxicity) NOEC: 125 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: yes The product has low solubility in the test medium. An aqueous
1-Decene, Dimer, Hydrogenated	 ther aquatic invertebrates (Chronic toxicity) NOEC: 125 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested. Expected to be inherently biodegradable.
1-Decene, Dimer, Hydrogenated Biodegradability	 ther aquatic invertebrates (Chronic toxicity) NOEC: 125 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested. Expected to be inherently biodegradable.
1-Decene, Dimer, Hydrogenated Biodegradability Elimination information (per	 ther aquatic invertebrates (Chronic toxicity) NOEC: 125 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested. Expected to be inherently biodegradable.
1-Decene, Dimer, Hydrogenated Biodegradability Elimination information (per Bioaccumulation	 Ather aquatic invertebrates (Chronic toxicity) NOEC: 125 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested. Expected to be inherently biodegradable. rsistence and degradability) No data available No data available

Synfluid® PAO 2 cSt	SAFETY DATA SHEET
Version 1.11	Revision Date 2022-09-19
	(vPvB).
Additional ecological :	No data available
information	No data available
Ecotoxicology Assessment	
Short-term (acute) aquatic hazaro 1-Decene, Dimer, : Hydrogenated	d This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic haza 1-Decene, Dimer, : Hydrogenated	rd This material is not expected to be harmful to aquatic organisms.
SECTION 13: Disposal consideratio	ns
The information in this SDS perta	ins only to the product as shipped.
Use material for its intended purp may meet the criteria of a hazard other State and local regulations. regulated components may be ne	pose or recycle if possible. This material, if it must be discarded, ous waste as defined by US EPA under RCRA (40 CFR 261) or Measurement of certain physical properties and analysis for ecessary 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.
SECTION 14: Transport information	ı
The shipping descriptions shows shipments in non-bulk package	wn here are for bulk shipments only, and may not apply to es (see regulatory definition).
Goods Regulations for additional etc.) Therefore, the information s	or international mode-specific and quantity-specific Dangerous shipping description requirements (e.g., technical name or names, shown here, may not always agree with the bill of lading shipping hpoints for the material may vary slightly between the SDS and the
NOT REGULATED AS A HAZ TRANSPORTATION BY THIS IMO / IMDG (INTERNATIONAL I	MARITIME DANGEROUS GOODS)
NOT REGULATED AS A HAZ TRANSPORTATION BY THIS	ZARDOUS MATERIAL OR DANGEROUS GOODS FOR S AGENCY.
SDS Number:100000010948	9/11

SAFETY DATA SHEET

Synfluid® PAO 2 cSt

sion 1.11	Revision Date 2022-09
IATA (INTERNATIONAL AIR TRA NOT REGULATED AS A HAZA TRANSPORTATION BY THIS A	ARDOUS MATERIAL OR DANGEROUS GOODS FOR
	ROUS GOODS BY ROAD (EUROPE)) ARDOUS MATERIAL OR DANGEROUS GOODS FOR AGENCY.
DANGEROUS GOODS (EUROPE	RDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS BY IN	ARDOUS MATERIAL OR DANGEROUS GOODS FOR
Maritime transport in bulk accor	
Europe REACH	: This product is in full compliance according to REACH regulation 1907/2006/EC.
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL	 regulation 1907/2006/EC. 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
Europe REACH Switzerland CH INV United States of America (USA) TSCA	 regulation 1907/2006/EC. On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory

SDS Number:100000010948

SAFETY DATA SHEET

Version 1.11

Revision Date 2022-09-19

SECTION 16: Other information

Further information

Legacy SDS Number : 3331

NSF H1 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.

ACGIH	Key or legend to abbreviations and a American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical Substances	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%		

SDS Number:100000010948