

Version 1.8 Revision Date 2015-03-04

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

Product information

Product Name : Synfluid® PAO 8 cSt HVI

Material : 1116770, 1116769, 1079706, 10603520

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:

North America: CHEMTREC 800.424.9300 or 703.527.3887

Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

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

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Emergency Overview

Form: Liquid Physical state: Liquid Color: Colorless Odor: Odorless

OSHA Hazards : No OSHA Hazards

Classification

:

Not a hazardous substance or mixture.

Labeling

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Not a hazardous substance or mixture.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen

by ACGIH.

SECTION 3: Composition/information on ingredients

Synonyms : PAO 8A

Polyalphaolefin

PAO

PAO 8 cSt Blend

Molecular formula : UVCB

Contains no hazardous ingredients according to GHS.

SECTION 4: First aid measures

General advice : No hazards which require special first aid measures. In the

case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this material safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air in case of accidental inhalation of vapors.

Consult a physician after significant exposure.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention. Wash off immediately with plenty of water.

In case of eye contact : Flush eyes with water as a precaution. Remove contact

lenses. Keep eye wide open while rinsing. If eye irritation

persists, consult a specialist.

If swallowed : If swallowed, DO NOT induce vomiting. Do not give milk or

alcoholic beverages. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

SECTION 5: Firefighting measures

Flash point : 246 - 271 °C (475 - 520 °F)

Method: Cleveland Open Cup

Autoignition temperature : 351 °C (664 °F)

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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

: In the event of fire, wear self-contained breathing apparatus.

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 : Keep in suitable, closed containers for disposal. Clean

contaminated floors and objects thoroughly while observing

environmental regulations.

Additional advice : No conditions to be specially mentioned.

SECTION 7: Handling and storage

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.

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SECTION 8: Exposure controls/personal protection

Engineering measures

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 : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under

normal atmospheric pressure.

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:. Lightweight

protective clothing.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

Protective measures : Wear suitable protective equipment. When using do not eat,

drink or smoke.

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

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Oxidizing properties : no

Autoignition temperature : 351 °C (664 °F)

Molecular formula : UVCB

Molecular weight : Not applicable

pH : Not applicable

pour point : <-50 °C (<-58 °F)

Boiling point/boiling range : $> 260 \, ^{\circ}\text{C} \, (> 500 \, ^{\circ}\text{F})$

Vapor pressure : No data available

Density : 6.87 - 6.96 L/G

Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Viscosity, kinematic : 46.2 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

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Conditions to avoid : No data available.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: Carbon oxides

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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Acute oral toxicity : LD50: > 5,000 mg/kg

Species: rat

Information given is based on data obtained from similar

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substances.

Synfluid® PAO 8 cSt HVI **Acute inhalation toxicity**

: LC50: > 5 mg/lExposure time: 4 h

Species: rat

Test atmosphere: dust/mist

Information given is based on data obtained from similar

substances.

Synfluid® PAO 8 cSt HVI Acute dermal toxicity

: LD50: > 2,000 mg/kg

Species: rat

Information given is based on data obtained from similar

substances.

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Skin irritation

No skin irritation

Information given is based on data obtained from similar

substances.

Synfluid® PAO 8 cSt HVI

Eye irritation

: No eye irritation

Information given is based on data obtained from similar

substances.

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Sensitization

Did not cause sensitization on laboratory animals.

Information given is based on data obtained from similar

substances.

Synfluid® PAO 8 cSt HVI Repeated dose toxicity

: Species: rat, Male and female

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.

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Aspiration toxicity

Toxicology Assessment

: No aspiration toxicity classification.

Synfluid® PAO 8 cSt HVI CMR effects

: 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:

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No toxicity to reproduction

SECTION 12: Ecological information

Ecotoxicity effects

Toxicity to fish : LL50: > 1,000 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

static test Test substance: no Method: OECD Test Guideline 203

Information given is based on data obtained from similar

substances.

Toxicity to daphnia and other aquatic invertebrates

: EL50: > 1,000 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

static test Test substance: no Method: OECD Test Guideline 202

Information given is based on data obtained from similar

substances.

Toxicity to algae : NOEC: > 1,000 mg/l

Exposure time: 96 h

Species: Selenastrum capricornutum (algae)

Method: OECD Test Guideline 201

Information given is based on data obtained from similar

substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

: NOEC: 125 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: no

The product has low solubility in the test medium. An aqueous

dispersion was tested.

Information given is based on data obtained from similar

substances.

Elimination information (persistence and degradability)

Biodegradability : This material is not expected to be readily biodegradable.

Expected to be ultimately biodegradable

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.

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Product : Dispose of wastes in an approved waste disposal facility.

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.

Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers.

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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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Other information : Polyolefin (molecular weight 300+) (n), S.T. 2, Cat.Y

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : No SARA Hazards

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

CERCLA Reportable

Quantity

: This material does not contain any components with a CERCLA

RQ.

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Ingredients : SARA 313: This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA

Title III, Section 313.

Clean Air Act

Ozone-Depletion

Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations

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Pennsylvania Right To Know

: No components are subject to the Pennsylvania Right to Know

Act.

New Jersey Right To Know

: No components are subject to the New Jersey Right to Know

Act.

California Prop. 65

Ingredients

: This product does not contain any chemicals known to the State

of California to cause cancer, birth, or any other reproductive

defects.

Notification status

Europe REACH : This mixture contains only ingredients which have been

registered according to Regulation (EU) No. 1907/2006

(REACH).

United States of America TSCA : On TSCA Inventory

Canada DSL : All components of this product are on the Canadian

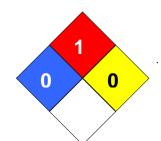
DSL.

Australia 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 : On the inventory, or in compliance with the inventory Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



Further information

Legacy SDS Number : 8014

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.

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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.

K	Key or legend to abbreviations and a	cronyms used	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
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%		