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

Product information

Product Name: Synfluid® PAO 7 cSt
Material: 1079863, 1080486, 1079705

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
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
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

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.

Classification:
Not a hazardous substance or mixture.

Labeling:
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: R02253
R05051
Polyalphaolefin
PAO

Molecular formula: Polymer

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)
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.

Use: Synthetic Lubricants
**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 workplace 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 workplace. 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
Oxidizing properties: no

Autoignition temperature: 351 °C (664 °F)

Molecular formula: Polymer

Molecular weight: Not applicable

pH: Not applicable

Pour point: < -42 °C (< -44 °F)

Boiling point/boiling range: > 260 °C (> 500 °F)

Vapor pressure: No data available

Density: 6.87 - 6.96 L/G

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

Viscosity, kinematic: 38 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

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 reactions

Hazardous reactions: Hazardous reactions: No dangerous reaction known under conditions of normal use.

Hazardous reactions: Hazardous polymerization does not occur.

Further information: No decomposition if stored and applied as directed.

Conditions to avoid: No data available.

Materials to avoid: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
### SECTION 11: Toxicological information

**Synfluid® PAO 7 cSt**

#### Acute oral toxicity
- **LD50**: > 5,000 mg/kg
- **Species**: Rat
- Information given is based on data obtained from similar substances.

#### Acute inhalation toxicity
- **LC50**: > 5 mg/l
- **Exposure time**: 4 h
- **Species**: Rat
- **Test atmosphere**: dust/mist
- Information given is based on data obtained from similar substances.

#### Acute dermal toxicity
- **LD50**: > 2,000 mg/kg
- **Species**: Rat
- Information given is based on data obtained from similar substances.

#### Skin irritation
- No skin irritation
- Information given is based on data obtained from similar substances.

#### Eye irritation
- No eye irritation
- Information given is based on data obtained from similar substances.

#### Sensitization
- Did not cause sensitization on laboratory animals.
- Information given is based on data obtained from similar substances.

#### 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.
### Genotoxicity in vitro

**Test Type**: Ames test  
**Result**: negative  
**Remarks**: Information refers to the main ingredient.

**Test Type**: Chromosome aberration test in vitro  
**Result**: negative  
**Remarks**: Information refers to the main ingredient.

### Genotoxicity in vivo

**Test Type**: Mouse micronucleus assay  
**Result**: negative  
**Remarks**: Information refers to the main ingredient.

### Aspiration toxicity

**Toxicology Assessment**: No aspiration toxicity classification.

### 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**: No toxicity to reproduction

### 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
Synfluid® PAO 7 cSt

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.

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

Elimination information (persistence and degradability):

Bioaccumulation:
- Method: QSAR modeled data
- This material is not expected to bioaccumulate.

Mobility:
- 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.

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.

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

Contaminated packaging:
- 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

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.
<table>
<thead>
<tr>
<th>SARA 302 Reportable Quantity</th>
<th>This material does not contain any components with a SARA 302 RQ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 302 Threshold Planning Quantity</td>
<td>No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</td>
</tr>
<tr>
<td>SARA 304 Reportable Quantity</td>
<td>This material does not contain any components with a section 304 EHS RQ.</td>
</tr>
<tr>
<td>SARA 313 Components</td>
<td>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.</td>
</tr>
</tbody>
</table>

**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**

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 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
SAFETY DATA SHEET

Synfluid® PAO 7 cSt

Version 1.8

Revision Date 2019-10-02

Notification status
Europe REACH: This product is in full compliance according to REACH regulation 1907/2006/EC.
Switzerland CH INV: Not in compliance with the inventory
United States of America (USA) TSCA: On or in compliance with the active portion of the 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: 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: On the inventory, or in compliance with the inventory
China IECSC: On the inventory, or in compliance with the inventory
Taiwan TCSI: 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: 5941

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.

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
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</table>

SDS Number: 100000013642
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
<th>Acronym</th>
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<tbody>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<tr>
<td>CNS</td>
<td>Central Nervous System</td>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>EC50</td>
<td>Effective Concentration</td>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
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<td>No Observed Effect Concentration</td>
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<td>EOSCA Generic Exposure Scenario Tool</td>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
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<td>European Oilfield Specialty Chemicals Association</td>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<td>European Inventory of Existing Chemical Substances</td>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<tr>
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<td>Inhibition Concentration 50%</td>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
<td>TWA</td>
<td>Time Weighted Average</td>
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<td>Japan, Inventory of Existing and New Chemical Substances</td>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
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<td>Korea, Existing Chemical Inventory</td>
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