SAFETY DATA SHEET



Synfluid® mPAO 150 cSt

Version 2.1

Revision Date 2024-07-23

| Product information | |
|---|--|
| Product Name Material | : Synfluid® mPAO 150 cSt : 1116565, 1114612, 1114591 |
| Company | : Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380 |
| Emergency telephone | e: |
| Asia: CHEMWATCI Mexico CHEMTREG South America SOS Argentina: +(54)-11 EUROPE: BIG +32. Austria: VIZ +43 1 4 Belgium: 070 245 2 Bulgaria: +359 2 91 Croatia: +359 2 91 Croatia: +3851 234 Cyprus: 1401 Czech Republic: To Denmark: Danish P Estonia: BIG +32.14 Finland: 0800 147 1 France: ORFILA nu Germany: BIG +32. Greece: (0030) 210 Hungary: +36-80-20 Iceland: 543 2222 (| ternational) 24.9300 or 703.527.3887(int'l) H (+612 9186 1132) China: 0532 8388 9090 C 01-800-681-9531 (24 hours) S-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 59839431 .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 Z7252-2014 and JIS Z7253-2012 (GHS 2011)

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).

| ECTION 3: Composition/information on ingredients | | | | | |
|---|------|-----------------|---------------|-----------|--|
| Synonyms | : Po | olyalphaolefin; | PAO | | |
| Molecular formula | : Pc | olymer | | | |
| Chemical name | | CAS-No. | Concentration | ENCS/ISHL | |
| | | | | number | |
| 1-Octene Homopolymer, | | 70693-43-5 | 100% | 2306002 | |
| Hydrogenated | | | | | |
| Contains no hazardous ingredients according to GHS. | | | | | |
| | | | | | |
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| General advice | : | No hazards which require special first aid measures. |
|---|-----|--|
| If inhaled | : | If unconscious, place in recovery position and seek med advice. If symptoms persist, call a physician. |
| In case of skin contact | : | Wash off with soap and water. Wash contaminated cloth before re-use. |
| In case of eye contact | : | Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open wh rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : | Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconse person. If symptoms persist, call a physician. |
| TION 5: Firefighting measu | res | |
| Flash point | : | 250°C (482°F) Method: ASTM D-92 |
| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to loca circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : | High volume water jet. |
| Specific hazards during fire fighting | : | Exposure to decomposition products may be a hazard to health. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting i necessary. |
| Further information | : | Standard procedure for chemical fires. Use extinguishin measures that are appropriate to local circumstances an surrounding environment. |
| Fire and explosion protection | : | Normal measures for preventive fire protection. |
| Hazardous decomposition products | : | Carbon oxides. |
| TION 6: Accidental release | | |

| Personal precautions | : | Material can create slippery conditions. |
|---------------------------|---|---|
| Environmental precautions | : | Clean contaminated floors and objects thoroughly while observing environmental regulations. |
| Methods for cleaning up | : | Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal. |
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SECTION 7: Handling and storage

Handling

| Advice on safe handling | : | 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. Electrical installations / working materials must comply with the technological safety standards. |

SECTION 8: Exposure controls/personal protection

Engineering measures

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. |
|--------------------------|---|---|
| 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 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. Prevent vapor buildup by providing adequate ventilation during and after use. |
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Wash hands before breaks and at the end of workday.

| SECTION 9: Physical and chemical properties | | | | | |
|---|--|--|--|--|--|
| Information on basic physical and chemical properties | | | | | |
| Appearance | | | | | |
| Form Physical state Color | : Oil : liquid : clear, light | | | | |
| Safety data | | | | | |
| Flash point | : 250°C (482°F) Method: ASTM D-92 | | | | |
| Ignition temperature | : 310°C (590°F) | | | | |
| Lower explosion limit | : No data available | | | | |
| Upper explosion limit | : No data available | | | | |
| Thermal decomposition | : No data available | | | | |
| Molecular formula | : Polymer | | | | |
| Molecular weight | : Varies | | | | |
| рН | : No data available | | | | |
| Freezing point | : -39°C (-38°F) | | | | |
| Boiling point/boiling range | : >250°C (>482°F) | | | | |
| Density | : 0.84 g/cm3 | | | | |
| Water solubility | : Soluble in hydrocarbon solvents; insoluble in water. | | | | |
| Viscosity, kinematic | : 1700 cSt at 40°C (104°F) | | | | |
| SECTION 10: Stability and reac | 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 | | | | | |
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| | | | | | |

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| Hazardous reactions | : Further information: No decomposition if stored and applied as directed. |
| 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. |
| CTION 11: Toxicological inform | mation |
| Synfluid® mPAO 150 cSt Acute oral toxicity | LD50: > 5,000 mg/kg Species: Rat Information given is based on data obtained from similar substances. |
| Synfluid® mPAO 150 cSt 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. |
| Synfluid® mPAO 150 cSt Acute dermal toxicity | LD50: > 2,000 mg/kg Species: Rabbit Information given is based on data obtained from similar substances. |
| Synfluid® mPAO 150 cSt Skin irritation | : No skin irritation Information given is based on data obtained from similar substances. |
| Synfluid® mPAO 150 cSt Eye irritation | : No eye irritation Information given is based on data obtained from similar substances. |
| Synfluid® mPAO 150 cSt Sensitization | Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances. |
| Synfluid® mPAO 150 cSt Genotoxicity in vitro | : Test Type: Ames test Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse |

| rnfluid® mPAO 150 cS | Revision Date 2024-07 |
|---|---|
| | mutation assay) Result: negative |
| Synfluid® mPAO 150 cSt Genotoxicity in vivo | : Remarks: Not classified due to data which are conclusive although insufficient for classification., Information given is based on data obtained from similar substances. |
| Synfluid® mPAO 150 cSt Aspiration toxicity Toxicology Assessment | : No aspiration toxicity classification. |
| Synfluid® mPAO 150 cSt CMR effects | : Carcinogenicity: Not available Mutagenicity: Weight of evidence does not support classification as a germ cell mutagen. Teratogenicity: Not available Reproductive toxicity: No toxicity to reproduction, Based on data from similar materials |
| Synfluid® mPAO 150 cSt Further information | |
| | : No data available. |
| CTION 12: Ecological informat | |
| | |
| CTION 12: Ecological informat | |
| CTION 12: Ecological informat | ion : This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar |
| CTION 12: Ecological informat Ecotoxicity effects Toxicity to fish Toxicity to daphnia and | ion This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar substances. This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar |
| ECTION 12: Ecological informat Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates | ion This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar substances. This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar substances. This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar substances. This material is not expected to be harmful to aquatic organisms. Information given is based on data obtained from similar |

SAFETY DATA SHEET Synfluid® mPAO 150 cSt Version 2.1 Revision Date 2024-07-23 Mobility : No data available Additional ecological : No data available information **Ecotoxicology Assessment** Short-term (acute) aquatic : This material is not expected to be harmful to aquatic hazard organisms. Long-term (chronic) aquatic : This material is not expected to be harmful to aquatic hazard 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 : 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. : Empty remaining contents. Dispose of as unused product. Contaminated packaging 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. SDS Number:100000102070 8/11

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| | GEROUS GOODS BY ROAD (EUROPE)) AZARDOUS MATERIAL OR DANGEROUS GOODS FOR HS AGENCY. |
| DANGEROUS GOODS (EURC | AZARDOUS MATERIAL OR DANGEROUS GOODS FOR |
| OF DANGEROUS GOODS BY | AZARDOUS MATERIAL OR DANGEROUS GOODS FOR |
| Maritime transport in bulk ac CTION 15: Regulatory informat National legislation Poisonous and Deleterious S | tion |
| Poisonous and Deleterious 5 | |
| | |
| | : Not applicable |
| Industrial Safety and Health I Substances Subject to be Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) | : Not applicable |
| Substances Subject to be Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) Harmful Substances Required | : Not applicable |
| Substances Subject to be Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) Harmful Substances Required Permission for Manufacture Hazardous Substances Subject to Labeling | : Not applicable L aw : Not applicable : |
| Substances Subject to be Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) Harmful Substances Required Permission for Manufacture Hazardous Substances Subject to Labeling Requirements Ordinance on Prevention of | Not applicable Law Not applicable Not applicable Not applicable |
| Substances Subject to be Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) Harmful Substances Required Permission for Manufacture Hazardous Substances Subject to Labeling Requirements Ordinance on Prevention of Organic Solvent Poisoning Ordinance on Prevention of | Not applicable Law Not applicable Not applicable Not applicable Not applicable |
| Substances Subject to be Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) Harmful Substances Required Permission for Manufacture Hazardous Substances Subject to Labeling Requirements Ordinance on Prevention of Organic Solvent Poisoning Ordinance on Prevention of Lead Poisoning Harmful Substances | Not applicable Law Not applicable Not applicable Not applicable Not applicable Not applicable |
| Substances Subject to be Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) Harmful Substances Required Permission for Manufacture Hazardous Substances Subject to Labeling Requirements Ordinance on Prevention of Organic Solvent Poisoning Ordinance on Prevention of Lead Poisoning Harmful Substances Prohibited from Manufacture Ordinance on Prevention of Hazards Due to Specified | Not applicable |
| Substances Subject to be Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) Harmful Substances Required Permission for Manufacture Hazardous Substances Subject to Labeling Requirements Ordinance on Prevention of Organic Solvent Poisoning Ordinance on Prevention of Lead Poisoning Harmful Substances Prohibited from Manufacture Ordinance on Prevention of Hazards Due to Specified Chemical Substances Ordinance on Prevention of | Not applicable |
| Substances Subject to be Notified Names Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances) Harmful Substances Required Permission for Manufacture Hazardous Substances Subject to Labeling Requirements Ordinance on Prevention of Organic Solvent Poisoning Ordinance on Prevention of Lead Poisoning Harmful Substances Prohibited from Manufacture Ordinance on Prevention of Hazards Due to Specified Chemical Substances | Not applicable Law Not applicable |

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SAFETY DATA SHEET Synfluid® mPAO 150 cSt Version 2.1 Revision Date 2024-07-23 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** : Not applicable Other regulations Fire Service Law : Not applicable to dangerous materials / designated flammables. 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 : Not regulated as a dangerous good Aviation Law **Notification status** Europe REACH This mixture contains only ingredients which have been 5 registered according to Regulation (EU) No. 1907/2006 (REACH). Switzerland CH INV On the inventory, or in compliance with the inventory United States of America (USA) On or in compliance with the active portion of the TSCA **TSCA** inventory Canada DSL All components of this product are on the Canadian DSL Australia AIIC 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 Philippines PICCS 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. China IECSC 5 On the inventory, or in compliance with the inventory, or has been registered as new substance Taiwan TCSI Not in compliance with the inventory SDS Number:100000102070 10/11

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SECTION 16: Other information

Further information

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.

| ł | Key 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 |

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