

## Synfluid<sup>®</sup> PAO 8 cSt

Version 1.22

Revision Date 2025-04-02

MSDS number: AA00974-0000000107

|   | of the substance/mixture and of the company/undertaking   |
|---|---|
| Product Name<br>Material  | : Synfluid® PAO 8 cSt<br>: 1111743, 1111742, 1111735, 1079836, 1079942, 1079666   |
| Recommended use of th<br>product<br>Restrictions on use   | ne : Synthetic Lubricants<br>: None known.  |
| Restrictions on use   | . None known.   |
| Address   | : Chevron Phillips Chemical Company LP<br>10001 Six Pines Drive<br>The Woodlands, TX 77380  |
| Address   | <ul> <li>CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.</li> <li>C/O DONG WOO CORPORATION<br/>#B-2601, JEONGJAIL-RO,</li> <li>BUNDANG-GU, SEONGNAMI-SI,</li> <li>GYEONGGI-DO, 13557</li> <li>SOUTH KOREA</li> <li>Telephone no.: +612-9186-1132</li> </ul>   |
| Emergency telephone:  |   |
| Asia: CHEMWATCH<br>Mexico CHEMTREC<br>South America SOS-<br>Argentina: +(54)-1159<br>EUROPE: BIG +32.14<br>Austria: VIZ +43 1 40<br>Belgium: 070 245 245<br>Bulgaria: +359 2 9154 | rnational)<br>4.9300 or 703.527.3887(int'l)<br>(+612 9186 1132) China: 0532 8388 9090<br>01-800-681-9531 (24 hours)<br>Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600<br>9839431<br>4.584545 (phone) or +32.14583516 (telefax)<br>06 43 43 (24 hours/day, 7 days/week)<br>5 (24 hours/day, 7 days/week) |
|   |   |

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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) 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 : Product Safety and Toxicology Group Responsible Department E-mail address SDS@CPChem.com Website www.CPChem.com Appointees 회사명: 리이치24시코리아㈜. 주소: 서울특별시 강남구 강남대로 94길 34,4층 전화: +82-02-6245-1610 **SECTION 2: Hazards identification** Hazard classification Number:10000062776 2/15

| Standards for classification (ministry of employment  | -  |  |                       | ty data she              |
|---|--|--|-----------------------|--------------------------|
| Classification  |  |  |                       |                          |
| Not applicable  |  |  |                       |                          |
| Warning label elements ir   | ncluding precautiona   | ary statements                                     |                       |                          |
| Symbol(s)<br>Signal Word  | :<br>: Not applica   | ble  |                       |                          |
| Hazard Statements   | : Not applica  | ble  |                       |                          |
| Precautionary Statements  | s : Not applica  | ble  |                       |                          |
|   |  |  |                       |                          |
|   |  |  |                       |                          |
|   |  |  |                       |                          |
|   |  |  |                       |                          |
|   |  |  |                       |                          |
| Other hazards which do  | : None   |  |                       |                          |
| Other hazards which do not result in classification   | : None   |  |                       |                          |
| not result in classification  |  |  |                       |                          |
|   |  | ients  |                       |                          |
| not result in classification  |  |  |                       |                          |
| not result in classification<br>TION 3: Composition/inf<br>Synonyms<br>Molecular formula  | ormation on ingred<br>: Polyalphaole<br>PAO<br>: Polymer   | fin  |                       |                          |
| not result in classification  | <b>ormation on ingred</b><br>: Polyalphaole<br>PAO   | fin<br>CAS-No.                                     | Concentration         | KECI<br>Number           |
| not result in classification<br><b>TION 3: Composition/inf</b><br>Synonyms<br><u>Molecular formula</u><br>Common name<br>1-Decene Homopolymer                 | ormation on ingred<br>: Polyalphaole<br>PAO<br>: Polymer<br>Synonyms<br>Dec-1-ene,   | fin  | Concentration 100%    |                          |
| not result in classification<br><b>TION 3: Composition/inf</b><br>Synonyms<br><u>Molecular formula</u><br>Common name   | ormation on ingred<br>: Polyalphaole<br>PAO<br>: Polymer<br>Synonyms<br>Dec-1-ene,<br>oligomers,   | fin<br>CAS-No.                                     |                       | Number                   |
| not result in classification<br><b>TION 3: Composition/inf</b><br>Synonyms<br><u>Molecular formula</u><br>Common name<br>1-Decene Homopolymer                 | ormation on ingred<br>: Polyalphaole<br>PAO<br>: Polymer<br>Synonyms<br>Dec-1-ene,   | fin<br>CAS-No.                                     |                       | Number                   |
| not result in classification<br><b>TION 3: Composition/inf</b><br>Synonyms<br><u>Molecular formula</u><br>Common name<br>1-Decene Homopolymer<br>Hydrogenated | Formation on ingred         :       Polyalphaole         PAO         :       Polymer         Synonyms         Dec-1-ene,         oligomers,         hydrogenated | fin<br>CAS-No.                                     |                       | Number                   |
| not result in classification<br><b>TION 3: Composition/inf</b><br>Synonyms<br><u>Molecular formula</u><br>Common name<br>1-Decene Homopolymer                 | Formation on ingred         :       Polyalphaole         PAO         :       Polymer         Synonyms         Dec-1-ene,         oligomers,         hydrogenated | fin<br>CAS-No.                                     |                       | Number                   |
| not result in classification<br>TION 3: Composition/inf<br>Synonyms<br><u>Molecular formula</u><br>Common name<br>1-Decene Homopolymer<br>Hydrogenated        | Formation on ingred         :       Polyalphaole         PAO         :       Polymer         Synonyms         Dec-1-ene,         oligomers,         hydrogenated | fin<br>CAS-No.<br>68037-01-4                       |                       | Number<br>KE-09505       |
| not result in classification TION 3: Composition/inf Synonyms Molecular formula Common name 1-Decene Homopolymer Hydrogenated TION 4: First aid measur        | formation on ingred         :       Polyalphaole         PAO         :       Polymer         Synonyms         Dec-1-ene,         oligomers,         hydrogenated | fin<br>CAS-No.<br>68037-01-4<br>which require spec | ial first aid measure | Number<br>KE-09505<br>s. |

|  |     | SAFETY DATA SHEE   |
|--|-----|--|
| Synfluid® PAO 8 cSt                            |     |  |
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| If inhaled                                     | :   | If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.                                     |
| If swallowed                                   | :   | Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.                    |
| Other cautions for Doctors                     |     |  |
| Symptoms                                       | :   | No information available.  |
| Risks  | :   | No information available.  |
| Treatment                                      | :   | No information available.  |
| SECTION 5: Firefighting measu                  | res |  |
| Flash point                                    | :   | 252-265°C (486-509°F)<br>Method: ASTM D-92   |
| Autoignition temperature                       | :   | 369°C (696°F)  |
| Suitable extinguishing media                   | :   | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.   |
| 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.   |
| 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                  | me  | asures   |
| 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.   |
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|  | :  | Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.   |
|--|--|---|
| TION 7: Handling and stora   | ige  |   |
| Handling   |  |   |
| Advice on safe handling  | :  | For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.   |
| Advice on protection against fire and explosion  | :  | Normal measures for preventive fire protection.   |
| Secure storage   |  |   |
| Requirements for storage<br>areas and containers<br>Uses advised against   | :  | Electrical installations / working materials must comply with the technological safety standards. None known.   |
| Advice on common storage   | :  | No materials to be especially mentioned.  |
| Specific Use   | :  | Synthetic Lubricants  |
| -  | rds  | , biological exposure standards, etc.   |
| Chemical exposure standa<br>Adequate ventilation to contr<br>Consider the potential hazard   | r <b>ds</b><br>ol a<br>ds o                              | , <b>biological exposure standards, etc.</b><br>irborned concentrations below the exposure guidelines/limits.<br>f this material (see Section 2), applicable exposure limits, job   |
| Chemical exposure standa<br>Adequate ventilation to contr<br>Consider the potential hazard<br>activities, and other substand<br>personal protective equipme<br>exposure to harmful levels of<br>recommended. The user sho  | rol a<br>ds o<br>ces i<br>nt.<br>f this<br>ould          | , biological exposure standards, etc.<br>irborned concentrations below the exposure guidelines/limits.<br>f this material (see Section 2), applicable exposure limits, job<br>in the work place when designing engineering controls and select<br>If engineering controls or work practices are not adequate to prev<br>s material, the personal protective equipment listed below is<br>read and understand all instructions and limitations supplied with   |
| Chemical exposure standa<br>Adequate ventilation to contr<br>Consider the potential hazard<br>activities, and other substand<br>personal protective equipme<br>exposure to harmful levels of<br>recommended. The user sho  | rol a<br>ds o<br>ces<br>nt.<br>f this<br>ould<br>on is   | biological exposure standards, etc.<br>irborned concentrations below the exposure guidelines/limits.<br>f this material (see Section 2), applicable exposure limits, job<br>in the work place when designing engineering controls and select<br>of engineering controls or work practices are not adequate to prev<br>as material, the personal protective equipment listed below is<br>read and understand all instructions and limitations supplied with<br>as usually provided for a limited time or under certain circumstance  |
| Chemical exposure standa<br>Adequate ventilation to contr<br>Consider the potential hazard<br>activities, and other substand<br>personal protective equipment<br>exposure to harmful levels of<br>recommended. The user sho<br>the equipment since protection  | rol a<br>ds o<br>ces<br>nt.<br>f this<br>ould<br>on is   | biological exposure standards, etc.<br>irborned concentrations below the exposure guidelines/limits.<br>f this material (see Section 2), applicable exposure limits, job<br>in the work place when designing engineering controls and select<br>of engineering controls or work practices are not adequate to prev<br>as material, the personal protective equipment listed below is<br>read and understand all instructions and limitations supplied with<br>as usually provided for a limited time or under certain circumstance  |
| Chemical exposure standa<br>Adequate ventilation to contr<br>Consider the potential hazard<br>activities, and other substand<br>personal protective equipment<br>exposure to harmful levels of<br>recommended. The user sho<br>the equipment since protection<br>Personal protective equipment                         | rol a<br>ds o<br>ces i<br>nt.<br>f this<br>ould<br>on is | <ul> <li>biological exposure standards, etc.</li> <li>irborned concentrations below the exposure guidelines/limits.</li> <li>f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and select of engineering controls or work practices are not adequate to previse material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with susually provided for a limited time or under certain circumstance</li> <li>t</li> <li>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</li> </ul>                                |
| Chemical exposure standa<br>Adequate ventilation to contr<br>Consider the potential hazard<br>activities, and other substand<br>personal protective equipme<br>exposure to harmful levels of<br>recommended. The user she<br>the equipment since protection<br>Personal protective equipment<br>Respiratory protection | rol a<br>ds o<br>ces i<br>nt.<br>f this<br>ould<br>on is | <ul> <li>biological exposure standards, etc.</li> <li>irborned concentrations below the exposure guidelines/limits.</li> <li>f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and select of engineering controls or work practices are not adequate to previse material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with susually provided for a limited time or under certain circumstance</li> <li>t</li> <li>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.</li> </ul> |

| /nfluid® PAO 8 cSt           |      |   |
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| ersion 1.22                  |      | Revision Date 2025-04-0   |
|                              |      | is any indication of degradation or chemical breakthrough.  |
| Skin and body protection     | :    | Choose body protection according to the amount and<br>concentration of the substance and the task performed at the<br>work place. Appropriate PPE may include:. Lightweight<br>protective clothing. |
| Hygiene measures             | :    | General industrial hygiene practice.  |
| ECTION 9: Physical and chem  | ical | properties  |
| Information on basic phys    | ical | and chemical properties   |
| Appearance                   |      |   |
| Physical state               | :    | liquid  |
| Color<br>Odor                |      | Clear, Colorless<br>Odorless  |
| Odor Threshold               | :    | No data available   |
| рН                           | :    | Not applicable  |
| Pour point                   | :    | No data available   |
| Melting point/freezing point |      | Not applicable  |
| Boiling point/boiling range  | :    | 430°C (806°F)   |
| Flash point                  | :    | 252-265°C (486-509°F)<br>Method: ASTM D-92  |
| Evaporation rate             | :    | 3<br>Method: ASTM D5800   |
| Flammability (solid, gas)    | :    | No data available   |
| Lower explosion limit        | :    | Not applicable  |
| Upper explosion limit        | :    | Not applicable  |
| Vapor pressure               | :    | 0.10 MMHG<br>at 232°C (450°F)   |
| Solubility                   | :    | Soluble in hydrocarbon solvents; insoluble in water.  |
| Relative density             | :    | 0.83<br>at 15.6 °C (60.1 °F)  |
| Vapor density                | :    | 10<br>(Air = 1.0)   |
| Partition coefficient: n-    | :    | No data available   |

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| octanol/water<br>Autoignition temperature        | : 369°C (696°F)  |
|--|--|
| Decomposition temperature                        | : No data available  |
| Viscosity, kinematic                             | : 46 cSt<br>at 40°C (104°F)  |
| Molecular weight                                 | : Varies   |
| SECTION 10: Stability and reactiv                | 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: Stable under recommended storage conditions., No hazards to be specially mentioned.                             |
| 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.  |
| SECTION 11: Toxicological inform                 | mation   |
| Information on exposure rou                      |  |
| Synfluid® PAO 8 cSt<br>Acute oral toxicity       | : LD50 Oral: > 5,000 mg/kg<br>Species: Rat   |
| Synfluid® PAO 8 cSt<br>Acute inhalation toxicity | : LC50: > 5.2 mg/l<br>Exposure time: 4 h<br>Species: Rat   |
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|   | Test atmosphere: dust/mist   |
|---|--|
| Synfluid® PAO 8 cSt<br>Acute dermal toxicity                | : LD50: > 2,000 mg/kg<br>Species: Rabbit   |
| Synfluid® PAO 8 cSt<br>Skin corrosion or irritation         | : No skin irritation   |
| Synfluid® PAO 8 cSt<br>Eye corrosion or irritation          | : No eye irritation  |
| Synfluid® PAO 8 cSt<br>Respiratory Sensitization            | : Did not cause sensitization on laboratory animals.   |
| Synfluid® PAO 8 cSt<br>Skin sensitization                   | Did not cause sensitization on laboratory animals.   |
| Synfluid® PAO 8 cSt<br>Carcinogenicity                      | : Remarks: This information is not available.  |
| Repeated dose toxicity                                      |  |
| 1-Decene Homopolymer<br>Hydrogenated                        | : Species: Rat<br>Application Route: Oral<br>Dose: 0, 8000, 20000, 50000 ppm<br>Exposure time: 28 day<br>Number of exposures: daily<br>NOEL: 6,245 mg/kg<br>Method: OECD Test Guideline 407    |
|   | Species: Rat<br>Application Route: oral gavage<br>Dose: 0, 1000, 7000, 50000 ppm<br>Exposure time: 13 weeks<br>Number of exposures: daily<br>NOEL: 4,159.4 mg/kg<br>Method: OCED Guideline 408 |
| Synfluid® PAO 8 cSt<br>Germ cell mutagenicity (in<br>vitro) | : Remarks: No adverse effects expected, Information given is based on data obtained from similar substances.   |
| Synfluid® PAO 8 cSt<br>Germ cell mutagenicity (in<br>vivo)  | : Remarks: No adverse effects expected, Information given is based on data obtained from similar substances.   |
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| 1-Decene Homopolymer<br>Hydrogenated                          | : Animal testing did not show any effects on fetal development.<br>Information given is based on data obtained from similar<br>substances.  |
|---|---|
| Specific Target Organ<br>Toxicity (Single Exposure)           |   |
|   | Not classified due to data which are conclusive although insufficient for classification.   |
| Specific Target Organ<br>Toxicity (Repeated<br>Exposure)      |   |
|   | Not classified due to data which are conclusive although insufficient for classification.   |
| Aspiration toxicity   |   |
| 1-Decene Homopolymer<br>Hydrogenated<br>Toxicology Assessment | : No aspiration toxicity classification.  |
| Synfluid® PAO 8 cSt<br>CMR effects                            | <ul> <li>Carcinogenicity:<br/>Not classifiable as a human carcinogen.<br/>Mutagenicity:<br/>Animal testing did not show any mutagenic effects.<br/>Teratogenicity:<br/>no developmental effects<br/>Reproductive toxicity:<br/>No toxicity to reproduction</li> </ul> |
| Reproductive toxicity   |   |
| 1-Decene Homopolymer<br>Hydrogenated                          | : Species: Rat<br>Sex: male and female<br>Application Route: oral gavage<br>Dose: 0, 100, 500, 1000 mg/kg<br>Number of exposures: daily<br>Test period: 10 weeks<br>Method: OECD Test Guideline 415<br>NOAEL Parent: 1,000 mg/kg                                      |
| Synfluid® PAO 8 cSt<br>Further information                    | : No data available.  |
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| Ecological Toxicity  |  |
|--|--|
| Toxicity to fish   | <ul> <li>LL50: &gt; 1,000 mg/l</li> <li>Exposure time: 96 h</li> <li>Species: Oncorhynchus mykiss (rainbow trout)</li> </ul>   |
| Toxicity to daphnia and other aquatic invertebrates  | <ul> <li>EL50: &gt; 1,000 mg/l</li> <li>Exposure time: 48 h</li> <li>Species: Daphnia magna (Water flea)</li> <li>static test Method: OECD Test Guideline 202</li> </ul> |
| Toxicity to algae  | <ul> <li>NOELR: 1,000 mg/l<br/>Exposure time: 72 h<br/>Species: Scenedesmus capricornutum (fresh water algae)<br/>static test Method: OECD Test Guideline 201</li> </ul> |
| Persistence and degradabilityPersistence and degradability                                 | : This material is not expected to be readily biodegradable.,<br>Expected to be inherently biodegradable.  |
| Bioaccumulative  | : This material is not expected to bioaccumulate.  |
| Mobility   | : No data available  |
| Results of PBT assessment<br>1-Decene Homopolymer<br>Hydrogenated<br>Other adverse effects | <ul> <li>Non-classified PBT substance, Non-classified vPvB substance</li> <li>No data available</li> </ul>   |
| 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.  |
| TION 13: Disposal considera  | tions  |
| •  | ertains only to the product as shipped.  |
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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.

Disposal precaution

: Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 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.

| UN Number                                       | : | not regulated                     |
|---|---|-----------------------------------|
| UN Product Shipping<br>Name                     | : | Not regulated as a dangerous good |
| Hazard Class                                    | : |                                   |
| Packing Group                                   | : | Not applicable                    |
| Marine Pollutant                                | : | Not applicable                    |
| Special Safety Measures<br>on Mode of Transport | : | No data available                 |

#### **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.

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ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

| Version 1 | .22 |
|-----------|-----|
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| NOT REGULATED AS A HAZA<br>TRANSPORTATION BY THIS   |      | OOUS MATERIAL OR DANGEROUS GOO<br>ENCY.  | ODS FOR                     |
|---|------|--|-----------------------------|
| RID (REGULATIONS CONCERNI<br>GOODS (EUROPE))  | ING  | THE INTERNATIONAL TRANSPORT C  | OF DANGEROUS                |
| NOT REGULATED AS A HAZA<br>BY THIS AGENCY.  | ٩RE  | OOUS MATERIAL OR DANGEROUS GOO   | ODS FOR TRANSPORTAT         |
| ADN (EUROPEAN AGREEMENT<br>DANGEROUS GOODS BY INLAN   |      | ONCERNING THE INTERNATIONAL CA<br>WATERWAYS)   | RRIAGE OF                   |
| NOT REGULATED AS A HAZA<br>BY THIS AGENCY.  | ٩RE  | OOUS MATERIAL OR DANGEROUS GO  | ODS FOR TRANSPORTAT         |
|   |      |  |                             |
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|   |      |  |                             |
|   |      |  |                             |
|   |      |  |                             |
| Other information   | : 1  | Not applicable   |                             |
| Other information<br>Maritime transport in bulk acco  |      |  |                             |
| Maritime transport in bulk acco   | ord  | ing to IMO instruments   |                             |
|   | ord  | ing to IMO instruments   |                             |
| Maritime transport in bulk acco   | ord  | ing to IMO instruments   |                             |
| Maritime transport in bulk accort<br>TION 15: Regulatory informat<br>National legislation<br>Regulation under the Occupa  | ord  | ing to IMO instruments   | ording to article 41 of the |
| Maritime transport in bulk acco<br>TION 15: Regulatory informat<br>National legislation<br>Regulation under the Occupa<br>A Material Safety Datasheet (M<br>ISHA.   | ord  | ing to IMO instruments<br>n<br>nal Safety and Health Act<br>PS) for this product is not required acc                                 |                             |
| Maritime transport in bulk according to the second | ord  | ing to IMO instruments   | Threshold                   |
| Maritime transport in bulk acco<br>TION 15: Regulatory informat<br>National legislation<br>Regulation under the Occupa<br>A Material Safety Datasheet (M<br>ISHA.   | ord  | ing to IMO instruments<br>n<br>nal Safety and Health Act<br>PS) for this product is not required acc                                 |                             |
| Maritime transport in bulk accord<br>TION 15: Regulatory informat<br>National legislation<br>Regulation under the Occupa<br>A Material Safety Datasheet (M<br>ISHA.<br>Regulation   | tior | ing to IMO instruments nal Safety and Health Act S) for this product is not required acc Chemical name Not applicable                | Threshold                   |
| Maritime transport in bulk acco<br>TION 15: Regulatory informat<br>National legislation<br>Regulation under the Occupa<br>A Material Safety Datasheet (M<br>ISHA.<br>Regulation<br>Harmful Substances<br>Prohibited from Manufacturing  | tior | ing to IMO instruments nal Safety and Health Act S) for this product is not required acc Chemical name Not applicable Not applicable | Threshold                   |
| Maritime transport in bulk accord<br>TION 15: Regulatory informat<br>National legislation<br>Regulation under the Occupa<br>A Material Safety Datasheet (M<br>ISHA.<br>Regulation<br>Harmful Substances   | tior | ing to IMO instruments nal Safety and Health Act S) for this product is not required acc Chemical name Not applicable                | Threshold                   |
| Maritime transport in bulk acco<br>TION 15: Regulatory informat<br>National legislation<br>Regulation under the Occupa<br>A Material Safety Datasheet (M<br>ISHA.<br>Regulation<br>Harmful Substances<br>Prohibited from Manufacturing<br>Harmful Substances Required   | tior | ing to IMO instruments nal Safety and Health Act S) for this product is not required acc Chemical name Not applicable Not applicable | Threshold                   |

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| Regulation  | Ch   | emical name   | Threshold<br>limits   |
|---|------|---|---|
| Toxic Chemicals   | : No | t applicable  |   |
|   |      | t applicable  |   |
| Prohibited Chemicals  |      | t applicable  |   |
|   |      | t applicable  |   |
| Restricted Chemicals  |      | t applicable  |   |
|   |      | t applicable  |   |
| Toxic Release Inventory   | : No | t applicable  |   |
|   | No   | t applicable  |   |
| Safety Management Act   |      |   |   |
| Regulations by the Waste<br>Management Act  |      | Not applicable  |   |
| Regulations by other domes<br>Europe REACH<br>Switzerland CH INV<br>United States of America (USA<br>TSCA<br>Canada DSL |      | <ul> <li>This product is in full compliance<br/>regulation 1907/2006/EC.</li> <li>On the inventory, or in complian</li> <li>On or in compliance with the ac<br/>TSCA inventory</li> <li>All components of this product a</li> </ul>   | ice with the inventory tive portion of the  |
| Australia AIIC<br>New Zealand NZIoC   |      | DSL<br>On the inventory, or in complian<br>On the inventory, or in complian   | ice with the inventory  |
| Japan ENCS<br>Korea KECI  |      | <ul> <li>Notification number: HSR00260</li> <li>On the inventory, or in complian</li> <li>All substances in this product we<br/>to be registered, or exempted fr<br/>CPChem through an Only Represent<br/>K-REACH regulations. Importation</li> <li>permitted if the Korean Importer<br/>included on CPChem's notification</li> </ul> | ere with the inventory<br>ere registered, notified<br>om registration by<br>esentative according to<br>tion of this product is<br>of Record was<br>ions or if the Importer of |
| Philippines PICCS<br>Taiwan TCSI<br>China IECSC   |      | <ul> <li>On the inventory, or in complian</li> <li>On the inventory, or in complian</li> <li>On the inventory, or in complian</li> </ul>  | ce with the inventory   |
|   |      |   |   |

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### **SECTION 16: Other information**

| Source of data          | :  |  |
|-------------------------|--|--|
| Date of initial writing | : 2020-09-08   |  |
| Revision number         | : 1  |  |
| Last revision date      | : 2025-04-02   |  |
| NFPA Classification     | : Health Hazard: 0<br>Fire Hazard: 1<br>Reactivity Hazard: 0 |  |



None.

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 |  |   |  |  |  |
|---|--|---|--|--|--|
| ACGIH American Conference of  |  | Lethal Dose 50%   |  |  |  |
| Government Industrial Hygienists  |  |   |  |  |  |
| Australian Inventory of Industrial  | LOAEL  | Lowest Observed Adverse Effect  |  |  |  |
| Chemicals   |  | Level   |  |  |  |
| Canada, Domestic Substances   | NFPA   | National Fire Protection Agency   |  |  |  |
| List  |  |   |  |  |  |
| Canada, Non-Domestic  | NIOSH  | National Institute for Occupational   |  |  |  |
| Substances List   |  | Safety & Health   |  |  |  |
| Central Nervous System  | NTP  | National Toxicology Program   |  |  |  |
| Chemical Abstract Service   | NZIoC  | New Zealand Inventory of  |  |  |  |
|   |  | Chemicals   |  |  |  |
| Effective Concentration   | NOAEL  | No Observable Adverse Effect  |  |  |  |
|   |  | Level   |  |  |  |
|   | American Conference of<br>Government Industrial Hygienists<br>Australian Inventory of Industrial<br>Chemicals<br>Canada, Domestic Substances<br>List<br>Canada, Non-Domestic<br>Substances List<br>Central Nervous System<br>Chemical Abstract Service | American Conference of<br>Government Industrial HygienistsLD50Australian Inventory of Industrial<br>ChemicalsLOAELChemicalsNFPAListNIOSHSubstances ListNIOSHCentral Nervous SystemNTPChemical Abstract ServiceNZIoC |  |  |  |

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| EC50   | Effective Concentration 50%       | NOEC  | No Observed Effect Concentration |
|--------|-----------------------------------|-------|----------------------------------|
| EGEST  | EOSCA Generic Exposure            | OSHA  | Occupational Safety & Health     |
|        | Scenario Tool                     |       | Administration                   |
| EOSCA  | European Oilfield Specialty       | PEL   | Permissible Exposure Limit       |
|        | Chemicals Association             |       |                                  |
| EINECS | European Inventory of Existing    | PICCS | Philippines Inventory of         |
|        | Chemical Substances               |       | Commercial Chemical Substances   |
| MAK    | Germany Maximum Concentration     | PRNT  | Presumed Not Toxic               |
|        | Values                            |       |                                  |
| 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 | TLV   | Threshold Limit Value            |
|        | on Cancer                         |       |                                  |
| IECSC  | Inventory of Existing Chemical    | TWA   | Time Weighted Average            |
|        | Substances in China               |       |                                  |
| ENCS   | Japan, Inventory of Existing and  | TSCA  | Toxic Substance Control Act      |
|        | New Chemical Substances           |       |                                  |
| KECI   | Korea, Existing Chemical          | UVCB  | Unknown or Variable Composition, |
|        | Inventory                         |       | 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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