

## **D-2887 Gas-Oil Reference Standard**

Version 1.2

Revision Date 2018-07-19

| SECTION 1: Identification of the su                 | ibstance/mixture and of the company/undertaking  |
|---|--|
| Product information                                 |  |
|   | D-2887 Gas-Oil Reference Standard<br>1017424, 1017425, 1017426   |
| Use :<br>Company :                                  | Reference Fuel<br>Chevron Phillips Chemical Company LP   |
|   | 10001 Six Pines Drive<br>The Woodlands, TX 77380   |
| Emergency telephone:                                |  |
| EUROPE: BIG +32.14.58454<br>Mexico CHEMTREC 01-800- | l)<br>r 703.527.3887(int'l)<br>186 1132) China: 0532 8388 9090<br>5 (phone) or +32.14583516 (telefax)<br>681-9531 (24 hours)<br>iside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600  |
| E-mail address                                      | Product Safety and Toxicology Group<br>SDS@CPChem.com<br>www.CPChem.com  |
| SECTION 2: Hazards identification                   |  |
|   | <b>mixture</b><br>ccordance with the hazard communication standard 29 CFR<br>in all the information as required by the standard.   |
| Classification :                                    | Flammable liquids, Category 3<br>Acute toxicity, Category 4, Inhalation<br>Carcinogenicity, Category 1B<br>Reproductive toxicity, Category 2<br>Specific target organ systemic toxicity - repeated exposure,<br>Category 2, Dermal, Liver<br>Aspiration hazard, Category 1 |
| SDS Number:100000014069                             | 1/13   |
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| Symbol(s)                | $\wedge \wedge \wedge$   |
|--------------------------|--|
|                          |  |
| Signal Word              | : Danger   |
| Hazard Statements        | <ul> <li>H226: Flammable liquid and vapor.</li> <li>H304: May be fatal if swallowed and enters airways.</li> <li>H332: Harmful if inhaled.</li> <li>H350: May cause cancer.</li> <li>H361: Suspected of damaging fertility or the unborn child.</li> <li>H373: May cause damage to organs (Liver) through prolonge or repeated exposure in contact with skin.</li> </ul>   |
| Precautionary Statements | <ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P210 Keep away from heat/sparks/open flames/hot surfaces.</li> <li>No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting/<br/>equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures against static discharge.</li> <li>P260 Do not breathe dust/fume/gas/mist/vapor/spray.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/ protective clothing/ eye<br/>protection/ face protection.</li> <li>Response:</li> <li>P301 + P310 IF SWALLOWED: Immediately call a POISON<br/>CENTER/doctor.</li> <li>P303 + P361 + P353 IF ON SKIN (or hair): Take off<br/>immediately all contaminated clothing. Rinse skin with<br/>water/shower.</li> <li>P304 + P340 + P312 IF INHALED: Remove person to fresh<br/>air and keep comfortable for breathing. Call a POISON<br/>CENTER/doctor if you feel unwell.</li> <li>P308 + P313 IF exposed or concerned: Get medical advice/<br/>attention.</li> <li>P311 Do NOT induce vomiting.</li> <li>P370 + P378 In case of fire: Use dry sand, dry chemical or<br/>alcohol-resistant foam to extinguish.</li> <li>Storage:</li> <li>P403 + P235 Store in a well-ventilated place. Keep cool.</li> <li>P405 Store locked up.</li> <li>Disposal:</li> <li>P501 Dispose of contents/ container to an approved waste<br/>disposal plant.</li> </ul> |
| 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.   |

| 887 Gas-Oil Refere                       | nce Si   | landard  |  |
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| NTP                                      | Known to be human carcinogen<br>Gas Oil, Full Range 68783-08-4<br>No ingredient of this product present at levels greater than or<br>equal to 0.1% is identified as a known or anticipated carcinogen<br>by NTP. |  |  |
| TION 3: Composition/inforr               | nation o   | n ingredients  |  |
| Synonyms                                 | : Non  | e Established  |  |
| Molecular formula                        | : UVC  | СВ   |  |
| Component                                |  | CAS-No.  | Weight %                               |
| Gas Oil, Full Range                      |  | 68783-08-4   | 100                                    |
|  |  |  |  |
| TION 4: First aid measures               |  |  |  |
| General advice                           | shee<br>serie  | Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited. |  |
| lf inhaled                               |  | Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.  |  |
| In case of skin contact                  |  | If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.   |  |
| In case of eye contact                   | lens   | Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.            |  |
| If swallowed                             | an u   | Keep respiratory tract clear. Never give anything by mouth to<br>an unconscious person. If symptoms persist, call a physician.<br>Take victim immediately to hospital.             |  |
| TION 5: Firefighting measu               | res  |  |  |
| Flash point                              |  | °C (122 °F)<br>hod: Tag closed cup   |  |
| Autoignition temperature                 | : No c   | data available   |  |
| Suitable extinguishing<br>media          | : Alco   | Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.  |  |
| Unsuitable extinguishing<br>media        | : High   | High volume water jet.   |  |
| Specific hazards during fire<br>fighting |  | not allow run-off from rses.   | fire fighting to enter drains or water |
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| Special protective                                 | :   | Wear self-contained breathing apparatus for firefighting if   |  |
| equipment for fire-fighters                        |     | necessary.  |  |
| Further information                                |     | Collect contaminated fire extinguishing water separately. This<br>must not be discharged into drains. Fire residues and<br>contaminated fire extinguishing water must be disposed of in<br>accordance with local regulations. For safety reasons in case<br>of fire, cans should be stored separately in closed<br>containments. Use a water spray to cool fully closed<br>containers.  |  |
| Fire and explosion<br>protection                   |     | Do not spray on an open flame or any other incandescent<br>material. Take necessary action to avoid static electricity<br>discharge (which might cause ignition of organic vapors).<br>Keep away from open flames, hot surfaces and sources of<br>ignition.   |  |
| Hazardous decomposition products                   | :   | Hydrocarbons. Carbon oxides.  |  |
| TION 6: Accidental release                         | mea | sures   |  |
|  |     |   |  |
| Personal precautions                               |     | Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.   |  |
| Environmental precautions                          |     | Prevent product from entering drains. Prevent further leakage<br>or spillage if safe to do so. If the product contaminates rivers<br>and lakes or drains inform respective authorities.   |  |
| Methods for cleaning up                            |     | Contain spillage, and then collect with non-combustible<br>absorbent material, (e.g. sand, earth, diatomaceous earth,<br>vermiculite) and place in container for disposal according to<br>local / national regulations (see section 13).  |  |
| TION 7: Handling and stora                         | age |   |  |
| Handling   |     |   |  |
| Advice on safe handling                            |     | Avoid formation of aerosol. Do not breathe vapors/dust. Avoid<br>exposure - obtain special instructions before use. Avoid<br>contact with skin and eyes. For personal protection see<br>section 8. Smoking, eating and drinking should be prohibited<br>in the application area. Take precautionary measures against<br>static discharges. Provide sufficient air exchange and/or<br>exhaust in work rooms. Open drum carefully as content may<br>be under pressure. Dispose of rinse water in accordance with<br>local and national regulations. |  |
| Advice on protection<br>against fire and explosion |     | Do not spray on an open flame or any other incandescent<br>material. Take necessary action to avoid static electricity<br>discharge (which might cause ignition of organic vapors).<br>Keep away from open flames, hot surfaces and sources of<br>ignition.   |  |
| Storage  |     |   |  |
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| Requirements for storage areas and containers | : | No smoking. Keep container tightly closed in a dry and well-<br>ventilated place. Containers which are opened must be<br>carefully resealed and kept upright to prevent leakage. |
|---|---|--|
|   |   | Observe label precautions. 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

| purifying respirators may not provide adequate protection.  |  |
|---|--|
| <ul> <li>Hand protection</li> <li>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.</li> </ul> |  |
| 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:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.  |  |
| Hygiene measures : When using do not eat or drink. When using do not smoke.<br>Wash hands before breaks and at the end of workday.  |  |

### **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

#### Appearance

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| Form<br>Physical state<br>Color<br>Odor<br>Odor Threshold | : Liquid<br>: Liquid<br>: Yellow-brown<br>: Mild<br>: No data available |                         |
| Safety data   |   |                         |
| Flash point   | : 50 °C (122 °F)<br>Method: Tag closed cup                              |                         |
| Lower explosion limit                                     | : No data available   |                         |
| Upper explosion limit                                     | : No data available   |                         |
| Oxidizing properties                                      | : No  |                         |
| Autoignition temperature                                  | : No data available   |                         |
| Molecular formula   | : UVCB  |                         |
| Molecular weight  | : Not applicable  |                         |
| рН  | : Not applicable  |                         |
| Freezing point  | : No data available   |                         |
| Pour point  | No data available   |                         |
| Boiling point/boiling range                               | : 115 - 475 °C (239 - 887 °F)   |                         |
| Vapor pressure  | : No data available   |                         |
| Relative density  | : 0.848<br>at 16 °C (61 °F)   |                         |
| Density   | : No data available   |                         |
| Water solubility  | : Negligible  |                         |
| Partition coefficient: n-<br>octanol/water                | : No data available   |                         |
| Viscosity, kinematic                                      | : 3.9 mm2/s<br>at 40 °C (104 °F)  |                         |
| Relative vapor density                                    | : 3<br>(Air = 1.0)  |                         |
| Evaporation rate  | : <1  |                         |
|   |   |                         |

### SECTION 10: Stability and reactivity

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| 887 Gas-Oil Referer                           | SAFETY DATA SH   |  |
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| Chemical stability                            | This material is considered stable under normal ambient and<br>anticipated storage and handling conditions of temperature<br>and pressure. |  |
| Possibility of hazardous rea                  | ctions   |  |
| Conditions to avoid                           | : Heat, flames and sparks.   |  |
| Materials to avoid                            | May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.  |  |
| Hazardous decomposition<br>products           | : Hydrocarbons<br>Carbon oxides  |  |
| Other data                                    | : No decomposition if stored and applied as directed.  |  |
| TION 11: Toxicological info                   | mation   |  |
| Acute oral toxicity                           |  |  |
| Gas Oil, Full Range                           | : LD50: 5,270 mg/kg<br>Species: Rat<br>Sex: male<br>Method: OECD Test Guideline 401  |  |
|   | LD50: 4,320 mg/kg<br>Species: Rat<br>Sex: female<br>Method: OECD Test Guideline 401  |  |
| Acute inhalation toxicity                     |  |  |
| Gas Oil, Full Range                           | LC50: 4.1 mg/l<br>Exposure time: 4 h<br>Species: Rat<br>Sex: male and female<br>Test atmosphere: dust/mist<br>Test substance: yes          |  |
| D-2887 Gas-Oil Reference S<br>Skin irritation | Standard<br>: May cause skin irritation and/or dermatitis.   |  |
| D-2887 Gas-Oil Reference S<br>Eye irritation  | <ul> <li>Standard</li> <li>Vapors may cause irritation to the eyes, respiratory system and the skin.</li> </ul>                            |  |
| Sensitization                                 |  |  |
| Gas Oil, Full Range                           | : Did not cause sensitization on laboratory animals.<br>Information given is based on data obtained from similar<br>substances.            |  |
| Repeated dose toxicity                        |  |  |
| Gas Oil, Full Range                           | : Species: Rat, Male and female<br>Sex: Male and female  |  |
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|   | Application Route: Dermal<br>Dose: 1.06, 10.6, 53, 106, 530 mg/kg<br>Exposure time: 13 wk<br>Number of exposures: 6 hrs occluded, 5 days/wk<br>NOEL: 1.06 mg/kg<br>Test substance: yes<br>Target Organs: Liver   |
| Developmental Toxicity  |  |
| Gas Oil, Full Range   | : Species: Rat<br>Application Route: Dermal<br>Dose: 0. 8, 30, 125, 500 mg/kg<br>Number of exposures: daily<br>Test period: GD 0-19<br>Test substance: yes<br>NOAEL Teratogenicity: 0.05 mg/kg<br>NOAEL Maternal: 0.05 mg/kg   |
| D-2887 Gas-Oil Reference<br>Aspiration toxicity   |  |
| CMR effects   |  |
| Gas Oil, Full Range   | <ul> <li>Carcinogenicity: Possible human carcinogen<br/>Reproductive toxicity: Some evidence of adverse effects on</li> </ul>  |
|   | sexual function and fertility, and/or on development, based on animal experiments.   |
| D-2887 Gas-Oil Reference<br>Further information<br>TION 12: Ecological infor  | <ul> <li>sexual function and fertility, and/or on development, based on animal experiments.</li> <li>e Standard <ul> <li>Solvents may degrease the skin.</li> </ul> </li> </ul>  |
| Further information   | <ul> <li>sexual function and fertility, and/or on development, based on animal experiments.</li> <li>e Standard <ul> <li>Solvents may degrease the skin.</li> </ul> </li> </ul>  |
| Further information   | <ul> <li>sexual function and fertility, and/or on development, based on animal experiments.</li> <li>e Standard <ul> <li>Solvents may degrease the skin.</li> </ul> </li> </ul>  |
| Further information<br>TION 12: Ecological infor<br>Toxicity to fish<br>Gas Oil, Full Range   | <ul> <li>sexual function and fertility, and/or on development, based on animal experiments.</li> <li>e Standard <ul> <li>Solvents may degrease the skin.</li> </ul> </li> <li>mation <ul> <li>LL50: 79 mg/l Exposure time: 96 h Species: Salmo gairdneri (Rainbow trout)</li> </ul> </li> </ul>  |
| Further information<br>TION 12: Ecological infor<br>Toxicity to fish<br>Gas Oil, Full Range   | sexual function and fertility, and/or on development, based on<br>animal experiments.<br>e Standard<br>: Solvents may degrease the skin.<br>mation<br>: LL50: 79 mg/l<br>Exposure time: 96 h<br>Species: Salmo gairdneri (Rainbow trout)<br>semi-static test Method: OECD Test Guideline 203   |
| Further information<br>TION 12: Ecological infor<br>Toxicity to fish<br>Gas Oil, Full Range<br>Toxicity to daphnia and c                        | sexual function and fertility, and/or on development, based on<br>animal experiments.<br>e Standard<br>: Solvents may degrease the skin.<br>mation<br>: LL50: 79 mg/l<br>Exposure time: 96 h<br>Species: Salmo gairdneri (Rainbow trout)<br>semi-static test Method: OECD Test Guideline 203<br>other aquatic invertebrates<br>: EL50: 0.22 mg/l<br>Exposure time: 48 h<br>Species: Daphnia magna (Water flea) |
| Further information<br>TION 12: Ecological infor<br>Toxicity to fish<br>Gas Oil, Full Range<br>Toxicity to daphnia and c<br>Gas Oil, Full Range | sexual function and fertility, and/or on development, based on<br>animal experiments.<br>e Standard<br>: Solvents may degrease the skin.<br>mation<br>: LL50: 79 mg/l<br>Exposure time: 96 h<br>Species: Salmo gairdneri (Rainbow trout)<br>semi-static test Method: OECD Test Guideline 203<br>other aquatic invertebrates<br>: EL50: 0.22 mg/l<br>Exposure time: 48 h<br>Species: Daphnia magna (Water flea) |

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|---|---|
| Elimination information (pers   | sistence and degradability)   |
| Biodegradability  | : This material is not expected to be readily biodegradable.  |
| Ecotoxicology Assessmen   |   |
|   |   |
| Acute aquatic toxicity<br>Gas Oil, Full Range   | : Very toxic to aquatic life.   |
|   |   |
| Chronic aquatic toxicity<br>Gas Oil, Full Range   | : Very toxic to aquatic life with long lasting effects.   |
| Additional ecological   | : Very toxic to aquatic life with long lasting effects.   |
| information   |   |
| CTION 13: Disposal conside  | rations   |
| The information in this SDS   | pertains only to the product as shipped.  |
| may meet the criteria of a ha<br>other State and local regulat<br>regulated components may l    | purpose or recycle if possible. This material, if it must be discarded,<br>azardous waste as defined by US EPA under RCRA (40 CFR 261) or<br>tions. Measurement of certain physical properties and analysis for<br>be necessary to make a correct determination. If this material is<br>aste, federal law requires disposal at a licensed hazardous waste |
| Product   | : The product should not be allowed to enter drains, water courses or the soil. 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.<br>Do not re-use empty containers. Do not burn, or use a cutting<br>torch on, the empty drum.   |
| CTION 14: Transport informa   | ation   |
|   | shown here are for bulk shipments only, and may not apply to ckages (see regulatory definition).  |
| Consult the appropriate dom<br>Goods Regulations for additi<br>etc.) Therefore, the information | nestic or international mode-specific and quantity-specific Dangerous<br>ional shipping description requirements (e.g., technical name or names<br>tion shown here, may not always agree with the bill of lading shipping<br>Flashpoints for the material may vary slightly between the SDS and the   |
| <b>US DOT (UNITED STATES</b><br>UN1202, DIESEL FUEL,  | DEPARTMENT OF TRANSPORTATION)<br>3, III   |
|   | <b>VAL MARITIME DANGEROUS GOODS)</b><br>3, III, (50 °C), MARINE POLLUTANT, (GAS OIL, FULL RANGE)  |
|   |   |

## IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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UN1202, DIESEL FUEL, 3, III

|   | <b>ANGEROUS GOODS BY ROAD (EUROPE))</b><br>, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (GAS OIL,   |
|---|--|
| DANGEROUS GOODS (EL   | <b>CERNING THE INTERNATIONAL TRANSPORT OF<br/>JROPE))</b><br>3, III, ENVIRONMENTALLY HAZARDOUS, (GAS OIL, FULL RANGE)  |
| OF DANGEROUS GOODS  | MENT CONCERNING THE INTERNATIONAL CARRIAGE<br>BY INLAND WATERWAYS)<br>, 3, III, ENVIRONMENTALLY HAZARDOUS, (GAS OIL, FULL RANGE)   |
| Transport in bulk according to<br>SECTION 15: Regulatory inform | Annex II of MARPOL 73/78 and the IBC Code  |
| National legislation  |  |
| SARA 311/312 Hazards  | : Flammable (gases, aerosols, liquids, or solids)<br>Acute toxicity (any route of exposure)<br>Carcinogenicity<br>Reproductive toxicity<br>Specific target organ toxicity (single or repeated exposure)<br>Aspiration hazard |
| EPCRA - EMERGENCY PL  | ANNING COMMUNITY RIGHT - TO – KNOW   |
| CERCLA Reportable<br>Quantity                                   | : This material does not contain any components with a CERCLA RQ.  |
| SARA 302 Reportable<br>Quantity                                 | : This material does not contain any components with a SARA 302 RQ.  |
| SARA 302 Threshold<br>Planning Quantity                         | : This material does not contain any components with a section 302 EHS TPQ.  |
| SARA 304 Reportable<br>Quantity                                 | : This material does not contain any components with a section 304 EHS RQ.   |
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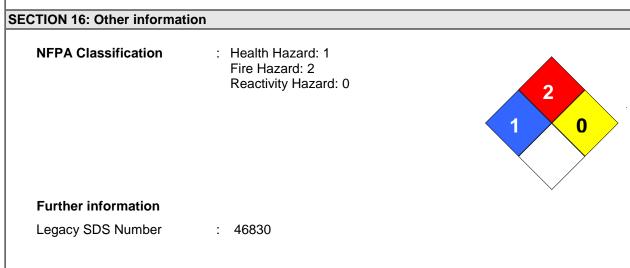
| 887 Gas-Oil Referer  | ce Standard   | SAFETY DATA SHI   |
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| SARA 313 Ingredients   | : This material does not contain ar<br>known CAS numbers that exceer<br>reporting levels established by S | ny chemical components with<br>d the threshold (De Minimis) |
| Clean Air Act<br>Ozone-Depletion : This pro  | oduct neither contains, nor was man   | ufactured with a Class I or                                 |
| Potential Class I  | ODS as defined by the U.S. Clean opt. A, App.A + B).  |   |
| This product does not contain<br>Act Section 112 (40 CFR 61).                      | any hazardous air pollutants (HAP)  | , as defined by the U.S. Clean A                            |
|  | any chemicals listed under the U.S.<br>n (40 CFR 68.130, Subpart F).                                      | Clean Air Act Section 112(r) fo                             |
| This product does not contain<br>Intermediate or Final VOC's (4                    | any chemicals listed under the U.S.<br>10 CFR 60.489).  | Clean Air Act Section 111 SOC                               |
| JS State Regulations   |   |   |
| Pennsylvania Right To Know   | : Gas Oil, Full Range - 68783-08-4  | ł   |
| California Prop. 65<br>Ingredients   | : This product does not contain an of California to cause cancer, bir defects.                            |   |
| <b>Notification status</b><br>Europe REACH<br>United States of America (US<br>TSCA | : Not in compliance with t<br>A) : On the inventory, or in c  | he inventory<br>ompliance with the inventory                |
| Canada DSL<br>Australia AICS<br>New Zealand NZIoC<br>Japan ENCS                    |   |   |
| Korea KECI<br>Philippines PICCS  |   | ompliance with the inventory                                |
|  |   |   |

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China IECSC

Not in compliance with the inventory

### : Not in complia



Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

| ACGIH      | American Conference of                                | LD50  | Lethal Dose 50%   |
|------------|---|-------|---|
|            | Government Industrial Hygienists                      |       |   |
| AICS       | Australia, Inventory of Chemical                      | LOAEL | Lowest Observed Adverse Effe                            |
|            | Substances  |       | Level   |
| DSL        | Canada, Domestic Substances<br>List                   | NFPA  | National Fire Protection Agenc                          |
| NDSL       | Canada, Non-Domestic                                  | NIOSH | National Institute for Occupatio                        |
|            | Substances List                                       |       | Safety & Health   |
| CNS        | Central Nervous System                                | NTP   | National Toxicology Program                             |
| CAS        | Chemical Abstract Service                             | NZIoC | New Zealand Inventory of<br>Chemicals                   |
| EC50       | Effective Concentration                               | NOAEL | No Observable Adverse Effect<br>Level                   |
| EC50       | Effective Concentration 50%                           | NOEC  | No Observed Effect Concentra                            |
| EGEST      | EOSCA Generic Exposure<br>Scenario Tool               | OSHA  | Occupational Safety & Health<br>Administration          |
| EOSCA      | European Oilfield Specialty<br>Chemicals Association  | PEL   | Permissible Exposure Limit                              |
| EINECS     | European Inventory of Existing<br>Chemical Substances | PICCS | Philippines Inventory of<br>Commercial Chemical Substan |
| MAK        | Germany Maximum Concentration<br>Values               | PRNT  | Presumed Not Toxic                                      |
| GHS        | Globally Harmonized System                            | RCRA  | Resource Conservation Recov<br>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<br>on Cancer        | TLV   | Threshold Limit Value                                   |
| IECSC      | Inventory of Existing Chemical                        | TWA   | Time Weighted Average                                   |
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Revision Date 2018-07-19

# D-2887 Gas-Oil Reference Standard

Version 1.2

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|      | Substances in China   |       |  |
|------|---|-------|--|
| ENCS | Japan, Inventory of Existing and<br>New Chemical Substances | TSCA  | Toxic Substance Control Act  |
| KECI | Korea, Existing Chemical<br>Inventory                       | UVCB  | Unknown or Variable Composition,<br>Complex Reaction Products, and<br>Biological Materials |
| <=   | Less Than or Equal To                                       | WHMIS | Workplace Hazardous Materials<br>Information System  |
| LC50 | Lethal Concentration 50%                                    |       |  |

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