## SAFETY DATA SHEET



# Marlex® M656F Polyethylene

Version 1.4

| TION 1: Identification of the substance/mixture and of the company/undertaking   |  |  |
|--|--|--|
|  |  |  |
| Product information  |  |  |
| Product Name<br>Material   | :  | Marlex® M656F Polyethylene<br>1019146, 1019145, 1019144, 1019143, 1019142, 1018539,<br>1018536   |
| Company  | :  | Chevron Phillips Chemical Company LP<br>10001 Six Pines Drive<br>The Woodlands, TX 77380   |
| Emergency telephone:   |  |  |
| Mexico CHEMTREC 01<br>South America SOS-Co<br>Argentina: +(54)-115983<br>EUROPE: BIG +32.14.5<br>Austria: VIZ +43 1 406 4<br>Belgium: 070 245 245 (2<br>Bulgaria: +359 2 9154 2<br>Croatia: +3851 2348 342<br>Cyprus: 1401<br>Czech Republic: Toxicol<br>Denmark: Danish Poiso<br>Estonia: BIG +32.14.584<br>Finland: 0800 147 111<br>France: ORFILA numbe<br>Germany: BIG +32.14.584<br>Finland: 543 2222 (24 h<br>Ireland: 543 2222 (24 h<br>Ireland: BIG +32.14.58454<br>Latvia: State Fire and R<br>Poisoning and Drug Infe<br>67042473. (24 hours.) | ational<br>300 o<br>612 9<br>-800-<br>tec In<br>39431<br>58454<br>43 43<br>24 hol<br>233<br>2 (24<br>logica<br>n Cer<br>4545<br>09 47<br>er (INF<br>84545<br>3777<br>99 (24<br>00 urs/<br>5 (pho<br>escue<br>ormat | <ul> <li>r 703.527.3887(int'l)</li> <li>186 1132) China: 0532 8388 9090</li> <li>681-9531 (24 hours)</li> <li>uside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600</li> <li>5 (phone) or +32.14583516 (telefax)</li> <li>(24 hours/day, 7 days/week)</li> <li>urs/day, 7 days/week)</li> <li>hours/day, 7 days/week)</li> <li>al Information Center +420 224 919 293, +420 224 915 402</li> <li>hter (Giftlinjen): +45 8212 1212</li> <li>(phone) or +32.14583516 (telefax)</li> <li>'1 977 (24 hours/day)</li> <li>RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)</li> <li>5 (phone) or +32.14583516 (telefax)</li> <li>(24 hours/day, 7 days/week)</li> <li>4 hours/day, 7 days/week)</li> </ul> |
| Number:10000000857   |  | 1/12   |
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| Lithuania: +370 (85) 236   | 20050  |
|--|--|
| Malta: +356 2395 2000<br>The Netherlands: NVIC:<br>Norway: 22 59 13 00 (24<br>Poland: BIG +32.14.584<br>Portugal: CIAV phone nu<br>Romania: +4021318360<br>Slovakia: +421 2 5477 4<br>Slovenia: Phone number | 02 5500 (24 hours/day, 7 days/week)<br>+31 (0)88 755 8000<br>4 hours/day, 7 days/week)<br>545 (phone) or +32.14583516 (telefax)<br>umber: +351 800 250 250<br>6<br>-166<br>r: 112<br>ncy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 |
| Responsible Department<br>E-mail address<br>Website  | <ul> <li>Product Safety and Toxicology Group</li> <li>SDS@CPChem.com</li> <li>www.CPChem.com</li> </ul>  |
|  | CAUTION: Do not use this material in medical applications involving he human body or permanent contact with internal body fluids or tissues  |
| human body or contact with   | medical applications involving brief or temporary implantation in the<br>n internal body fluids or tissues unless the material has been provided<br>os Chemical Company LP or its legal affiliates under an agreement which<br>e contemplated use.       |
| express warranty or implied  | Company LP and its legal affiliates makes no representation, promise,<br>I warranty concerning the suitability of this material for use in implantation<br>ntact with internal body fluids or tissues.   |
| <b>SECTION 2: Hazards identifica</b>   | ation  |
|  | tance or mixture<br>sified in accordance with the hazard communication standard 29 CFR<br>bels contain all the information as required by the standard.  |
| Classification   | : Combustible dust   |
|  |  |
| Labeling   |  |
| Labeling<br>Signal Word  | : Warning  |
| -  | <ul> <li>Warning</li> <li>May form combustible dust concentrations in air.<br/>While this product may not be a combustible dust as sold,<br/>further processing or handling may form combustible dust<br/>concentration in air.</li> </ul>               |
| Signal Word  | <ul> <li>May form combustible dust concentrations in air.</li> <li>While this product may not be a combustible dust as sold,<br/>further processing or handling may form combustible dust</li> </ul>   |
| Signal Word<br>Hazard Statements   | <ul> <li>May form combustible dust concentrations in air.</li> <li>While this product may not be a combustible dust as sold,<br/>further processing or handling may form combustible dust</li> </ul>   |

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| Inhalation   | : Repeated exposure to dust f<br>respiratory irritation.<br>Fumes generated during the<br>irritation of the upper respira   | rom this material may cause   |  |
| Skin   | significant irritation.<br>Contact with the skin is not e<br>response.  |   |  |
| Eyes   | <ul> <li>Contact with the eyes may cause irritation due to the abrasive<br/>action.</li> <li>Not expected to cause prolonged or significant eye irritation.</li> <li>Thermal burns may result if heated material contacts eye.</li> </ul>                                       |   |  |
| Ingestion  | : Ingestion of this product is n  | ot a likely route of exposure.  |  |
| Carcinogenicity:   |   |   |  |
| IARC   |   | present at levels greater than or probable, possible or confirmed   |  |
| NTP  | equal to 0.1% is identified as  | present at levels greater than or   |  |
|  | by NTP.   | a known or anticipated carcinogen   |  |
| TION 3: Composition/inf  | by NTP.   | a known or anticipated carcinogen   |  |
| TION 3: Composition/info   | by NTP.   |   |  |
| •  | by NTP.   | Weight % 100  |  |
| Synonyms<br>Component  | by NTP. ormation on ingredients : DISCONTINUED CAS-No. 9002-88-4  | Weight %  |  |
| Synonyms<br>Component<br>Polyethylene  | by NTP.  ormation on ingredients  : DISCONTINUED  CAS-No. 9002-88-4  es  : Move to fresh air in case of   | Weight %  |  |
| Synonyms<br>Component<br>Polyethylene<br>TION 4: First aid measur  | by NTP.  ormation on ingredients  : DISCONTINUED  CAS-No. 9002-88-4  es  : Move to fresh air in case of fumes from overheating or o call a physician.  : If the molten material gets o immediate medical attention  | Weight %<br>100<br>accidental inhalation of dust or   |  |
| Synonyms<br>Component<br>Polyethylene<br><b>TION 4: First aid measur</b><br>If inhaled                     | by NTP.  ormation on ingredients  : DISCONTINUED  CAS-No. 9002-88-4  es  : Move to fresh air in case of fumes from overheating or o call a physician.  : If the molten material gets or immediate medical attentior material from the skin or us                                | Weight % 100 accidental inhalation of dust or combustion. If symptoms persist, on skin, quickly cool in water. Seek h. Do not try to peel the solidified e solvents or thinners to dissolve it. eyes, rinse immediately with plenty   |  |
| Synonyms<br>Component<br>Polyethylene<br>TION 4: First aid measur<br>If inhaled<br>In case of skin contact | by NTP.  ormation on ingredients  : DISCONTINUED  CAS-No. 9002-88-4  es  : Move to fresh air in case of fumes from overheating or o call a physician.  : If the molten material gets o immediate medical attentior material from the skin or us : In the case of contact with e | Weight %         100         accidental inhalation of dust or combustion. If symptoms persist,         on skin, quickly cool in water. Seek         n. Do not try to peel the solidified         e solvents or thinners to dissolve it.         eyes, rinse immediately with plenty advice. |  |

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| CTION 5: Firefighting measu                    | ires |  |
|--|------|--|
| Flash point                                    | :    | No data available  |
| Autoignition temperature                       | :    | No data available  |
| Suitable extinguishing<br>media                | :    | Water. Water mist. Dry chemical. Carbon dioxide (CO2).<br>Foam. If possible, water should be applied as a spray from a<br>fogging nozzle since this is a surface burning material. The<br>application of high velocity water will spread the burning<br>surface layer. Avoid the use of straight streams that may<br>create a dust cloud and the risk of a dust explosion. Use<br>extinguishing measures that are appropriate to local<br>circumstances and the surrounding environment. |
| Specific hazards during fire fighting          | :    | Risks of ignition followed by flame propagation or secondary<br>explosions can be caused by the accumulation of dust, e.g. on<br>floors and ledges.  |
| Special protective equipment for fire-fighters | :    | Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.  |
| Further information                            | :    | This material will burn although it is not easily ignited.   |
| Fire and explosion protection                  | :    | Treat as a solid that can burn. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.  |
| Hazardous decomposition products               | :    | Normal combustion forms carbon dioxide, water vapor and may<br>produce carbon monoxide, other hydrocarbons and<br>hydrocarbon oxidation products (ketones, aldehydes, organic<br>acids) depending on temperature and air availability.<br>Incomplete combustion can also produce formaldehyde.   |
| CTION 6: Accidental release                    | mea  | asures   |
| Personal precautions                           | :    | Sweep up to prevent slipping hazard. Avoid breathing dust.<br>Avoid dust formation.  |
| Environmental precautions                      | :    | Do not contaminate surface water. Prevent product from entering drains.  |
| Methods for cleaning up                        | :    | Clean up promptly by sweeping or vacuum.   |
| Additional advice                              | :    | Dust deposits should not be allowed to accumulate on<br>surfaces, as these may form an explosive mixture if they are<br>released into the atmosphere in sufficient concentration. Avoid<br>dispersal of dust in the air (i.e., clearing dust surfaces with<br>compressed air).   |
| TION 7. Handling and store                     | age  |  |
| CTION 7: Handling and stora                    |      |  |
| Handling                                       |      |  |

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| larlex® M656F Polyet                                      | hy                          | lene   |   |  |   |
| ersion 1.4  |                             |  |   | Revisi   | ion Date 2022-07-0  |
| Advice on safe handling                                   | :                           | out of wate<br>slipping ha<br>Electrostat<br>condition w<br>bonding ar<br>themselves<br>>177°C), p<br>are irritatin<br>throat, and<br>acetaldehy<br>and acrole<br>epidemiolo<br>carcinogen | er sources and se<br>zard.<br>ic charge may ac<br>when handling this<br>nd grounding may<br>s be sufficient. A<br>olyethylene can<br>g to the mucous<br>l lungs. These su<br>vde, acetone, ace<br>in. Based on anii<br>ogical evidence, fo<br>n. Following all re | safe handling of the<br>wers. Spilled peller<br>cumulate and creat<br>s material. To mining<br>be necessary, but<br>t elevated temperat<br>release vapors and<br>membranes of the el<br>obstances may inclu-<br>tic acid, formic acid<br>mal data and limited<br>permaldehyde has be<br>ecommendations without the spin<br>to thermal processing | ts may create a<br>te a hazardous<br>nize this hazard,<br>may not by<br>tures (>350°F,<br>gases, which<br>eyes, mouth,<br>ude<br>l, formaldehyde<br>d<br>een listed as a<br>thin this SDS |
| Advice on protection against fire and explosion           | :                           | dispersed i  | in air in sufficient  | rn. Avoid generatin<br>concentrations, and<br>ce is a potential du   | d in the  |
| Storage   |                             |  |   |  |   |
| Requirements for storage areas and containers             | :                           | Keep in a d  | dry place. Keep i   | n a well-ventilated p  | place.  |
|   |                             |  |   |  |   |
| Advice on common storage                                  | :                           | Do not stor  | re together with o  | xidizing and self-ig   | niting products.  |
|   |                             |  | _   | xidizing and self-ig   | niting products.  |
| ECTION 8: Exposure controls                               | /per                        | sonal prote  | ection  | xidizing and self-ig   | niting products.  |
| ECTION 8: Exposure controls                               | /per                        | sonal prote  | ection  | xidizing and self-ig   | niting products.  |
| ECTION 8: Exposure controls<br>Ingredients with workplace | /per<br>e co                | sonal prote  | ection  |  |   |
| ECTION 8: Exposure controls                               | <b>/per</b><br>e co<br>Basi | sonal prote  | ection  | xidizing and self-ig   | Note  |

Control as Particulate Not Otherwise Classified (PNOC). The ACGIH Guideline\* for respirable dust is 3.0 mg/m3 and 10.0 mg/m3 for total dust. The OSHA PEL for respirable dust is 5.0 mg/m3 and 15.0 mg/m3 for total dust.

\* This value is for inhalable (total) particulate matter containing no asbestos and < 1.0% crystalline silica.

#### **Engineering measures**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### Personal protective equipment

| No respiratory protection is normally required. If heated<br>material generates vapor or fumes that are not adequately<br>controlled by ventilation, wear an appropriate respirator. Use<br>the following elements for air-purifying respirators: Organic<br>Vapor and Formaldehyde. Use a positive pressure, air-<br>supplying respirator if there is potential for uncontrolled |
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|   | release, aerosolization, exposure levels are not known, or<br>other circumstances where air-purifying respirators may not<br>provide adequate protection.<br>Dust safety masks are recommended when the dust<br>concentration is excessive.  |
| Eye protection  | : Use of safety glasses with side shields for solid handling is<br>good industrial practice. If this material is heated, wear<br>chemical goggles or safety glasses with side shields or a face<br>shield. If there is potential for dust, use chemical goggles.   |
| Skin and body protection                                  | : At ambient temperatures use of clean and protective clothing is<br>good industrial practice. If the material is heated or molten,<br>wear thermally insulated, heat-resistant gloves that are able to<br>withstand the temperature of the molten product. If this<br>material is heated, wear insulated clothing to prevent skin<br>contact if engineering controls or work practices are not<br>adequate. |
| CTION 9: Physical and chemic                              | al properties  |
| Information on basic physic                               | al and chemical properties   |
| Appearance  |  |
| Form<br>Physical state<br>Color<br>Odor<br>Odor Threshold | <ul> <li>Pellets</li> <li>solid</li> <li>Opaque</li> <li>Mild to no odor</li> <li>No data available</li> </ul>   |
| Safety data   |  |
| Flash point   | : No data available  |
| Lower explosion limit                                     | : Not applicable   |
| Upper explosion limit                                     | : Not applicable   |
| Autoignition temperature                                  | : No data available  |
| Thermal decomposition                                     | : Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.   |
| рН  | : Not applicable   |
| Melting point/range                                       | : 90-140°C (194-284°F)   |
| Freezing point  | Not applicable   |
| Initial boiling point and boiling range                   | : Not applicable   |
| Vapor pressure  | : Not applicable   |
| Relative density  | : Not applicable   |
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| Density                                    | : 0.91 - 0.97 g/cm3<br>Please refer to the Technical Data Sheet (TDS) for more<br>detailed information relating to the nominal physical<br>properties, including density, of this polyethylene resin grade  |
| Water solubility                           | : negligible  |
| Partition coefficient: n-<br>octanol/water | : No data available   |
| Solubility in other solvents               | : No data available   |
| Viscosity, dynamic                         | : Not applicable  |
| Viscosity, kinematic                       | : Not applicable  |
| Relative vapor density                     | : Not applicable  |
| Evaporation rate                           | : Not applicable  |
| TION 10: Stability and reacti              | vity  |
| Reactivity                                 | : This material is considered non-reactive under normal<br>ambient and anticipated storage and handling conditions of<br>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               | ictions   |
| Hazardous reactions                        | : Hazardous reactions: None known.  |
| Conditions to avoid                        | : Avoid prolonged storage at elevated temperature.  |
| Materials to avoid                         | : Avoid contact with strong oxidizing agents.   |
| Thermal decomposition                      | : Low molecular weight hydrocarbons, alcohols, aldehydes, acids and ketones can be formed during thermal processing.  |
| Hazardous decomposition<br>products        | : Normal combustion forms carbon dioxide, water vapor and<br>may produce carbon monoxide, other hydrocarbons and<br>hydrocarbon oxidation products (ketones, aldehydes, organi<br>acids) depending on temperature and air availability.<br>Incomplete combustion can also produce formaldehyde. |
| Other data                                 | : No decomposition if stored and applied as directed.   |
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| Marlex® M656F Polyethylene<br>Acute oral toxicity       |  |
|---|--|
| Marlex® M656F Polyethylene<br>Acute inhalation toxicity |  |
| Marlex® M656F Polyethylene<br>Acute dermal toxicity     |  |
| Marlex® M656F Polyethylene<br>Skin irritation           | e : No skin irritation   |
| Marlex® M656F Polyethylene Eye irritation               | e<br>: No eye irritation   |
| Marlex® M656F Polyethylene Sensitization                | e : Did not cause sensitization on laboratory animals.   |
| Marlex® M656F Polyethylene<br>Further information       | <ul> <li>This product contains POLYMERIZED OLEFINS. During thermal processing (&gt;350°F, &gt;177°C) polyolefins can release vapors and gases (aldehydes,ketones and organic acids) which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. Generally these irritant effects are all transitory. However, prolonged exposure to irritating off-gases can lead to pulmonary edema. Formaldehyde (an aldehyde) has been classified as a carcinogen based on animal data and limited epidemiological evidence.</li> </ul> |
| SECTION 12: Ecological informat                         | ion  |
|   |  |
| Ecotoxicity effects                                     |  |
| Toxicity to fish  | : Not applicable   |
| Toxicity to daphnia and other aquatic invertebrates     | : No data available  |
| Biodegradability  | : This material is not expected to be readily biodegradable.   |
| Elimination information (persis                         | tence and degradability)   |
| Bioaccumulation   | : Does not bioaccumulate.  |
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| Mobility                              | : The product is insoluble and floats on water.   |
| Results of PBT assessment             | : Non-classified vPvB substance   |
| Additional ecological information     | : This material is not expected to be harmful to aquatic organisms., Fish or birds may eat pellets which may obstruct their digestive tracts. |
| Ecotoxicology Assessment              |   |
| Short-term (acute) aquatic hazard     | : This product has no known ecotoxicological effects.   |
| Long-term (chronic) aquatic<br>hazard | : This product has no known ecotoxicological effects.   |

#### **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.

#### **SECTION 14: Transport information**

# The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### **RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF**

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| DANGEROUS GOODS (EU<br>NOT REGULATED AS A<br>TRANSPORTATION BY   | HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR   |  |  |  |  |
| ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE<br>OF DANGEROUS GOODS BY INLAND WATERWAYS)<br>NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR<br>TRANSPORTATION BY THIS AGENCY. |   |  |  |  |  |
|  |   |  |  |  |  |
| SARA 311/312 Hazards   | : Combustible dust  |  |  |  |  |
| 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  | : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.   |  |  |  |  |
| SARA 304 Reportable<br>Quantity  | : This material does not contain any components with a section 304 EHS RQ.  |  |  |  |  |
| SARA 313 Components  | : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |  |  |  |  |
| Clean Air Act  |   |  |  |  |  |
| Potential Class  | product neither contains, nor was manufactured with a Class I or<br>II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR<br>ubpt. A, App.A + B).                         |  |  |  |  |
| This product does not conta<br>Act Section 112 (40 CFR 61  | in any hazardous air pollutants (HAP), as defined by the U.S. Clean Ai<br>).  |  |  |  |  |
|  |   |  |  |  |  |
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|  | ny chemicals listed under the U.S. Clean Air Act Section 112(r) for   |  |  |
| This product does not contain a<br>Intermediate or Final VOC's (40   | iny chemicals listed under the U.S. Clean Air Act Section 111 SOCM<br>OCFR 60.489).   |  |  |
| US State Regulations   |   |  |  |
| Pennsylvania Right To Know :   | No components are subject to the Pennsylvania Right to Know Act.  |  |  |
| California Prop. 65 :<br>Components  | This product, as shipped, does not contain any carcinogens or<br>reproductive toxins presently known by the State of California to<br>cause cancer or reproductive toxicity at a level of exposure<br>subject to the requirements of California Proposition 65.   |  |  |
| Notification status<br>Switzerland CH INV<br>United States of America (USA)<br>TSCA<br>Canada DSL<br>Australia AICS<br>New Zealand NZIoC<br>Japan ENCS<br>Korea KECI | <ul> <li>On the inventory, or in compliance with the inventory</li> <li>On or in compliance with the active portion of the TSCA inventory</li> <li>All components of this product are on the Canadian DSL</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).</li> </ul> |  |  |
| Philippines PICCS<br>China IECSC<br>Taiwan TCSI  | <ul> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> </ul>   |  |  |
| ECTION 16: Other information   |   |  |  |
| NFPA Classification :  | Health Hazard: 0<br>Fire Hazard: 1<br>Reactivity Hazard: 0  |  |  |
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#### **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.

| ACGIH  | Ley or legend to abbreviations and a<br>American Conference of | LD50  | Lethal Dose 50%   |
|--------|--|-------|---|
|        | Government Industrial Hygienists                               |       |   |
| AICS   | Australia, Inventory of Chemical<br>Substances                 | LOAEL | Lowest Observed Adverse Effect<br>Level   |
| DSL    | Canada, Domestic Substances<br>List                            | NFPA  | National Fire Protection Agency   |
| NDSL   | Canada, Non-Domestic<br>Substances List                        | NIOSH | National Institute for Occupational<br>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 Concentration  |
| 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 Substance                                 |
| MAK    | Germany Maximum Concentration<br>Values                        | PRNT  | Presumed Not Toxic  |
| GHS    | Globally Harmonized System                                     | RCRA  | Resource Conservation Recovery<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<br>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<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%                                       |       |   |