

Marlex® HP025 Polyethylene

Version 3.2

Revision Date 2019-10-17

| TION 1: Identification of th | e substance/mixture and of the company/undertaking |
|---|---|
| Product information | |
| Product Name Material | Marlex® HP025 Polyethylene 1100812, 1100814, 1100761, 1100815, 1100816, 1100817, 1100813 |
| Company | : Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380 |
| Emergency telephone: | |
| EUROPE: BIG +32.14.5 Mexico CHEMTREC 01- South America SOS-Cot Argentina: +(54)-115983 Responsible Department | 00 or 703.527.3887(int'l) 2 9186 1132) China: 0532 8388 9090 4545 (phone) or +32.14583516 (telefax) 000-681-9531 (24 hours) c Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 0431 : Product Safety and Toxicology Group |
| E-mail address Website | : SDS@CPChem.com : www.CPChem.com |
| | AUTION: Do not use this material in medical applications involving e human body or permanent contact with internal body fluids or tissues |
| human body or contact with | edical applications involving brief or temporary implantation in the internal body fluids or tissues unless the material has been provided s Chemical Company LP or its legal affiliates under an agreement whic contemplated use. |
| express warranty or implied | ompany LP and its legal affiliates makes no representation, promise, warranty concerning the suitability of this material for use in implantatio act with internal body fluids or tissues. |
| | |
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SECTION 2: Hazards identification

| Classification | : Combustible dust |
|--------------------------|---|
| Labeling | |
| Signal Word | : Warning |
| Hazard Statements | : May form combustible dust concentrations in air. While this product may not be a combustible dust as sold, further processing or handling may form combustible dust concentration in air. |
| Potential Health Effects | |
| Physical Hazards | : Pellets may cause a slip hazard on hard surfaces. Mechanical processing may form combustible dust concentrations in air and thermal processing at elevated temperatures may generate formaldehyde. |
| Inhalation | Repeated exposure to dust from this material may cause respiratory irritation. Fumes generated during thermal processing may cause irritation of the upper respiratory tract. |
| Skin | Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic response. If this material is heated, thermal burns may result from contact Thermal burns may include pain or feeling of heat, discolorations, swelling, and blistering. |
| Eyes | Contact with the eyes may cause irritation due to the abrasive action. Not expected to cause prolonged or significant eye irritation. Thermal burns may result if heated material contacts eye. |
| Ingestion | : Ingestion of this product is not a likely route of exposure. |
| Carcinogenicity: | |
| IARC | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| NTP | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |

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| Component | | CAS-No. | Weight % | |
|--|--|---|--|--------------------------|
| Polyethylene Hexene Copoly | mer | 25213-02-9 | 99 - 100 | |
| | | | | |
| TION 4: First aid measures | | | | |
| If inhaled | fum | | of accidental inhalation of due or combustion. If symptoms p | |
| In case of skin contact | imn | nediate medical atten | ts on skin, quickly cool in wate tion. Do not try to peel the sol use solvents or thinners to dis | idified |
| In case of eye contact | | he case of contact wi vater and seek medic | th eyes, rinse immediately with al advice. | n plenty |
| If swallowed | : Do | not induce vomiting v | vithout medical advice. | |
| TION 5: Firefighting measu | res | | | |
| Flash point | : No | data available | | |
| Autoignition temperature | : No | data available | | |
| Suitable extinguishing media | Foa fog app sur crea exti | am. If possible, water ging nozzle since this lication of high veloc face layer. Avoid the ate a dust cloud and nguishing measures | chemical. Carbon dioxide (CC should be applied as a spray is a surface burning material. ty water will spread the burnin use of straight streams that m the risk of a dust explosion. U that are appropriate to local urrounding environment. | from a The g ay |
| Specific hazards during fire fighting | exp | | l by flame propagation or seco d by the accumulation of dust | |
| Special protective equipment for fire-fighters | | | equipment. Wear self-contain irefighting if necessary. | ed |
| Further information | : Thi | s material will burn al | though it is not easily ignited. | |
| Fire and explosion protection | disp pre | persed in air in suffici | burn. Avoid generating dust; ent concentrations, and in the ource is a potential dust explo | |
| Hazardous decomposition products | pro | duce carbon monoxic | s carbon dioxide, water vapor le, other hydrocarbons and roducts (ketones, aldehydes, c | |

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acids) depending on temperature and air availability. Incomplete combustion can also produce formaldehyde.

SECTION 6: Accidental release measures

| Personal precautions | : | Sweep up to prevent slipping hazard. Avoid breathing dust. 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 surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). |

SECTION 7: Handling and storage

Handling

| Advice on safe handling | : | Use good housekeeping for safe handling of the product. Keep out of water sources and sewers. |
|---|---|---|
| | | Spilled pellets and powders may create a slipping hazard. |
| | | Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. At elevated temperatures (>350°F, >177°C), polyethylene can release vapors and gases, which are irritating to the mucous membranes of the eyes, mouth, throat, and lungs. These substances may include acetaldehyde, acetone, acetic acid, formic acid, formaldehyde and acrolein. Based on animal data and limited epidemiological evidence, formaldehyde has been listed as a carcinogen. Following all recommendations within this SDS should minimize exposure to thermal processing emissions. |
| Advice on protection against fire and explosion | : | 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. |
| Storage | | |
| Requirements for storage areas and containers | : | Keep in a dry place. Keep in a well-ventilated place. |
| Advice on common storage | : | Do not store together with oxidizing and self-igniting products. |
| | | |
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SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

| Components | Basis | Value | Control parameters | Note |
|---------------|----------|-------|--------------------|-------------------|
| Nuisance Dust | OSHA Z-3 | TWA | 15 mg/m3 | Total dust |
| | OSHA Z-3 | TWA | 5 mg/m3 | (respirable dust) |
| | | | | |

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

| Eye protection: Use of safety glasses with side shields for solid handling is good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face shield. If there is potential for dust, use chemical goggles.Skin and body protection: At ambient temperatures use of clean and protective clothing is good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not adequate. | Respiratory protection | : No respiratory protection is normally required. If heated material generates vapor or fumes that are not adequately controlled by ventilation, wear an appropriate respirator. Use the following elements for air-purifying respirators: Organic Vapor and Formaldehyde. Use a positive pressure, air- supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. Dust safety masks are recommended when the dust concentration is excessive. |
|--|--------------------------|---|
| good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not | Eye protection | good industrial practice. If this material is heated, wear chemical goggles or safety glasses with side shields or a face |
| | Skin and body protection | good industrial practice. If the material is heated or molten, wear thermally insulated, heat-resistant gloves that are able to withstand the temperature of the molten product. If this material is heated, wear insulated clothing to prevent skin contact if engineering controls or work practices are not |

| Appearance | |
|---|--|
| Form Physical state Color Odor Odor Threshold | Pellets Solid Opaque Mild to no odor No data available |
| Safety data | |

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|--|---|
| 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 | : Not applicable |
| range Vapor pressure | : Not applicable |
| Relative density | : Not applicable |
| Density | : 0.91 - 0.97 g/cm3 Please refer to the Technical Data Sheet (TDS) for more detailed information relating to the nominal physical properties, including density, of this polyethylene resin grade. |
| Water solubility | : Negligible |
| Partition coefficient: n- 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 |
| CTION 10: Stability and reactiv | vitv |

S

Reactivity

: This material is considered non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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| Iex® HP025 Polyethylene on 3.2 Chemical stability : This material is considered stable unanticipated storage and handling conand pressure. Possibility of hazardous reactions Conditions to avoid : Avoid prolonged storage at elevated Materials to avoid : Avoid contact with strong oxidizing ages and ketones can be formed durent of the storage and ketones can be formed durent of the storage and ketones can be formed durent of the storage of the storage and ketones can be formed durent of the storage of the st | emperature. ents. alcohols, aldehydes, ng thermal processing. xide, water vapor and r hydrocarbons and nes, aldehydes, organic |
|---|---|
| Chemical stability : This material is considered stable unanticipated storage and handling conand pressure. Possibility of hazardous reactions Conditions to avoid : Avoid prolonged storage at elevated Materials to avoid : Avoid contact with strong oxidizing ages Fhermal decomposition : Low molecular weight hydrocarbons, acids and ketones can be formed du Hazardous decomposition : Normal combustion forms carbon diamay produce carbon monoxide, othe hydrocarbon oxidation products (ket acids) depending on temperature an Incomplete combustion can also pro Other data : No decomposition if stored and applie TION 11: Toxicological information : No decomposition if stored and applie Marlex® HP025 Polyethylene : Presumed Not Toxic Marlex® HP025 Polyethylene : Presumed Not Toxic Marlex® HP025 Polyethylene : No skin irritation Marlex® HP025 Polyethylene : No eye irritation <th>er normal ambient and litions of temperature emperature. ents. alcohols, aldehydes, ng thermal processing. xide, water vapor and r hydrocarbons and nes, aldehydes, organic</th> | er normal ambient and litions of temperature emperature. ents. alcohols, aldehydes, ng thermal processing. xide, water vapor and r hydrocarbons and nes, aldehydes, organic |
| Conditions to avoid: Avoid prolonged storage at elevatedMaterials to avoid: Avoid contact with strong oxidizing ageThermal decomposition: Low molecular weight hydrocarbons, acids and ketones can be formed durHazardous decomposition products: Normal combustion forms carbon did may produce carbon monoxide, othe hydrocarbon oxidation products (ket acids) depending on temperature an Incomplete combustion can also proOther data: No decomposition if stored and applieTION 11: Toxicological information: Presumed Not ToxicMarlex® HP025 Polyethylene Acute oral toxicity: Presumed Not ToxicMarlex® HP025 Polyethylene Skin irritation: No skin irritationMarlex® HP025 Polyethylene Eye irritation: No skin irritationMarlex® HP025 Polyethylene Skin irritation: No skin irritation | ents. alcohols, aldehydes, ng thermal processing. xide, water vapor and r hydrocarbons and nes, aldehydes, organic |
| Materials to avoid : Avoid contact with strong oxidizing agona in the strength in the strength or the strength in the strengthere. Marlex® HP025 Polyet | ents. alcohols, aldehydes, ng thermal processing. xide, water vapor and r hydrocarbons and nes, aldehydes, organic |
| Thermal decomposition : Low molecular weight hydrocarbons, acids and ketones can be formed durent and the tones can be formed durent acids and ketones can be formed acids and ketones can be formed acids and ketones can be formed acids and ketones and applied to the hydrocarbon oxidation and incomplete combustion can also produce acids and applied to the data acids and ketones and applied to the data acids and ketones and applied to the data acids and ketones and applied to the data acids and the data acids | alcohols, aldehydes, ng thermal processing. xide, water vapor and r hydrocarbons and nes, aldehydes, organic |
| acids and ketones can be formed during acids and ketones can be formed acids and ketones can be formed during acids and ketones can be formed during acids and ketones can be formed acids and ketones can be formed acids and ketones (ket acids) depending on temperature an Incomplete combustion can also products (ket acids) depending on temperature an Incomplete combustion can also products acids) depending on temperature an Incomplete combustion can also products acids. Acide and applied acids and ketones acids and applied acids and ketones acids and applied acids and acids and ketones acids. Marlex® HP025 Polyethylene Presumed Not Toxic Marlex® HP025 Polyethylene No skin irritation Marlex® HP025 Polyethylene No eye irritation Marlex® | ng thermal processing. xide, water vapor and r hydrocarbons and nes, aldehydes, organic |
| broducts may produce carbon monoxide, other hydrocarbon oxidation products (ket acids) depending on temperature an Incomplete combustion can also product acids) depending on temperature an Incomplete combustion can also product acids) depending on temperature an Incomplete combustion can also product acids) depending on temperature an Incomplete combustion can also product acids) depending on temperature an Incomplete combustion can also product acids) depending on temperature an Incomplete combustion can also product acids) depending on temperature an Incomplete combustion can also product acids) depending on temperature an Incomplete combustion can also product acids. Dther data : No decomposition if stored and applied acids | hydrocarbons and nes, aldehydes, organic |
| TION 11: Toxicological information Marlex® HP025 Polyethylene Acute oral toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Acute inhalation toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Acute dermal toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene : Presumed Not Toxic Marlex® HP025 Polyethylene : Presumed Not Toxic Marlex® HP025 Polyethylene : No skin irritation Skin irritation : No skin irritation Marlex® HP025 Polyethylene : No skin irritation Marlex® HP025 Polyethylene : No eye irritation Marlex® HP025 Polyethylene : No eye irritation Marlex® HP025 Polyethylene : No eye irritation | |
| Marlex® HP025 Polyethylene Acute oral toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Acute inhalation toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Acute dermal toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Acute dermal toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Skin irritation : No skin irritation Marlex® HP025 Polyethylene Skin irritation : No skin irritation Marlex® HP025 Polyethylene Skin irritation : No eye irritation | d as directed. |
| Marlex® HP025 Polyethylene Acute oral toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Acute inhalation toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Acute dermal toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Acute dermal toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene Skin irritation : No skin irritation Marlex® HP025 Polyethylene Skin irritation : No skin irritation Marlex® HP025 Polyethylene Skin irritation : No eye irritation | |
| Acute oral toxicity: Presumed Not ToxicMarlex® HP025 Polyethylene Acute inhalation toxicity: Presumed Not ToxicMarlex® HP025 Polyethylene Acute dermal toxicity: Presumed Not ToxicMarlex® HP025 Polyethylene Skin irritation: No skin irritationMarlex® HP025 Polyethylene Eye irritation: No skin irritationMarlex® HP025 Polyethylene Eye irritation: No skin irritation | |
| Acute oral toxicity: Presumed Not ToxicMarlex® HP025 Polyethylene Acute inhalation toxicity: Presumed Not ToxicMarlex® HP025 Polyethylene Acute dermal toxicity: Presumed Not ToxicMarlex® HP025 Polyethylene Skin irritation: No skin irritationMarlex® HP025 Polyethylene Eye irritation: No skin irritationMarlex® HP025 Polyethylene Eye irritation: No skin irritation | |
| Acute inhalation toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene : Presumed Not Toxic Marlex® HP025 Polyethylene : No skin irritation Skin irritation : No skin irritation Marlex® HP025 Polyethylene : No skin irritation Marlex® HP025 Polyethylene : No skin irritation Marlex® HP025 Polyethylene : No eye irritation Marlex® HP025 Polyethylene : No eye irritation | |
| Acute dermal toxicity : Presumed Not Toxic Marlex® HP025 Polyethylene : No skin irritation Marlex® HP025 Polyethylene : No eye irritation Marlex® HP025 Polyethylene : No eye irritation Marlex® HP025 Polyethylene : No eye irritation | |
| Skin irritation : No skin irritation Marlex® HP025 Polyethylene : No eye irritation Eye irritation : No eye irritation Marlex® HP025 Polyethylene : No eye irritation | |
| Eye irritation : No eye irritation Marlex® HP025 Polyethylene | |
| | |
| Sensitization : Did not cause sensitization on labora | ory animals. |
| Marlex® HP025 Polyethylene Further information : This product contains POLYMERIZED thermal processing (>350°F, >177°C) vapors and gases (aldehydes,ketone which are irritating to the mucous me mouth, throat, and lungs. Generally the transitory. However, prolonged expose can lead to pulmonary edema. Format has been classified as a carcinogen being the indexide basis ba | |
| limited epidemiological evidence. Number:10000000776 7/12 | polyolefins can release and organic acids) nbranes of the eyes, ese irritant effects are al ure to irritating off-gases dehyde (an aldehyde) |

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SECTION 12: Ecological information

Ecotoxicity effects

Biodegradability: This material is not expected to be readily biodegradable.Elimination information (persistence and degradability)Bioaccumulation: Does not bioaccumulate.Mobility: The product is insoluble and floats on water.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

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)

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| NOT REGULATED AS A TRANSPORTATION BY | A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 7 THIS AGENCY. |
| | ANGEROUS GOODS BY ROAD (EUROPE)) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 7 THIS AGENCY. |
| DANGEROUS GOODS (EI | A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR |
| OF DANGEROUS GOODS | EMENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY. |
| nsport in bulk according to | Annex II of MARPOL 73/78 and the IBC Code |
| CTION 15: Regulatory infor | mation |
| CTION 15: Regulatory infor National legislation SARA 311/312 Hazards | |
| National legislation | |
| National legislation SARA 311/312 Hazards CERCLA Reportable | : Combustible dust : This material does not contain any components with a CERCLA |
| National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable | Combustible dust This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA |
| National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold | Combustible dust This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA 302 RQ. No chemicals in this material are subject to the reporting |
| National legislation SARA 311/312 Hazards CERCLA Reportable Quantity SARA 302 Reportable Quantity SARA 302 Threshold Planning Quantity SARA 304 Reportable | Combustible dust This material does not contain any components with a CERCLA RQ. This material does not contain any components with a SARA 302 RQ. No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. This material does not contain any components with a section |

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Clean Air Act

Ozone-Depletion : This product neither contains, nor was manufactured with a Class I or Potential Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations Pennsylvania Right To Know : No components are subject to the Pennsylvania Right to Know Act. New Jersey Right To Know : No components are subject to the New Jersey Right to Know Act. California Prop. 65 : This product does not contain any chemicals known to the State Components of California to cause cancer, birth, or any other reproductive defects. Notification status Europe REACH A substance or substances in this product is not : registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances. Switzerland CH INV Not in compliance with the inventory 5 United States of America (USA) On or in compliance with the active portion of the 5 TSCA **TSCA** inventory Canada DSL All components of this product are on the Canadian 5 DSL Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC On the inventory, or in compliance with the inventory 5 On the inventory, or in compliance with the inventory Japan ENCS 2 Korea KECI 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 SDS Number:10000000776 10/12

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themselves notified the substance.

| Philippines PICCS China IECSC Taiwan TCSI | On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory |
|---|---|
|---|---|

SECTION 16: Other information

NFPA Classification : Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0

Further information

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 | 1015 | |
| AICS | Australia, Inventory of Chemical Substances | LOAEL | Lowest Observed Adverse Effe |
| DSL | Canada, Domestic Substances List | NFPA | National Fire Protection Agenc |
| NDSL | Canada, Non-Domestic Substances List | NIOSH | National Institute for Occupatio Safety & Health |
| CNS | Central Nervous System | NTP | National Toxicology Program |
| CAS | Chemical Abstract Service | NZIoC | New Zealand Inventory of Chemicals |
| EC50 | Effective Concentration | NOAEL | No Observable Adverse Effect Level |
| EC50 | Effective Concentration 50% | NOEC | No Observed Effect Concentra |
| EGEST | EOSCA Generic Exposure Scenario Tool | OSHA | Occupational Safety & Health Administration |
| EOSCA | European Oilfield Specialty Chemicals Association | PEL | Permissible Exposure Limit |
| EINECS | European Inventory of Existing Chemical Substances | PICCS | Philippines Inventory of Commercial Chemical Substar |
| MAK | Germany Maximum Concentration Values | PRNT | Presumed Not Toxic |
| GHS | Globally Harmonized System | RCRA | Resource Conservation Recov Act |
| >= | Greater Than or Equal To | STEL | Short-term Exposure Limit |
| IC50 | Inhibition Concentration 50% | SARA | Superfund Amendments and Reauthorization Act. |
| IARC | International Agency for Research on Cancer | TLV | Threshold Limit Value |
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| IECSC | Inventory of Existing Chemical | TWA | Time Weighted Average |
|-------|----------------------------------|-------|----------------------------------|
| | Substances in China | | 5 5 |
| 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% | | |

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