#### EPCRA 311/312 CATEGORIES: Aspiration Hazard Respiratory or Skin Sensitization

 REGULATORY LISTS SEARCHED:

 01.1=LARC Group 1
 03

 01-2A=LARC Group 2A
 04-4

 01-2B=LARC Group 2B
 05

 02-NTP Carcinogen
 06

03=EPCRA 313 04=CA Proposition 65 05=MA RTK 06=NJ RTK 07=PA RTK

The following components of this material are found on the regulatory lists indicated.

Zinc dialkyldithiophosphate 06, 07

For research and development purposes only. May contain substances not on the TSCA inventory. To be used only under the direct supervision of a technically qualified individual.

## SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health 1 Flammability 1

Reactivity: 0

HMMS RATINGS: Health: 2 Flammability: Reactivity: 0 (0-Lass, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE - Personal Procision Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

2,3,4,5,7,8,10,14,15 REVISION STATEMENT: This revision updates the following sections of this Safety Data Sheet

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# ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

SCBA	NCEL	Cancer	IARC	DOT	SIMH	API .	Industrial	ACGIH	GHS	THIS	TLV
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Self-Contained Breathing Apparatus	New Chemical Exposure Limit	Proposition and proposition or processing	International Agency for Research on	Department of Transportation (USA)	Hazardous Materials Information System	American Petroleum Institute	ygienists	<ul> <li>American Conference of Governmental</li> </ul>	Globally Harmonized System	Short-term Exposure Limit	- Threshold Limit Value
	EPA - Er	Administration	OSHA	NTP .	NFPA -	SDS .	Goods Code	IMO/IMDG	CAS -	PEL .	TWA -
	Environmental Projection Agency		<ul> <li>Occupational Safety and Health</li> </ul>	National Toxicology Program (USA)	National Fire Protection Association (USA)	Safety Data Sheet	Commence of the commence of th	- International Maritime Dangerous	Chemical Abstract Service Number	Permissible Exposure Limit	Time Weighted Average

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. 'Since this information may be applied under conditions beyond our control and with which we may

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be unfamiliar and since data made available subsequent to the date herrof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonits. In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is

## SECTION 5 FIRE FIGHTING MEASURES

Unusual Fire Hazards: Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs). EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames

### PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without

liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of Sulfur, Zinc, Calcium, Phosphonas proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids

# SECTION 6 ACCIDENTAL RELEASE MEASURES

precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable contaminers and dispose of in a manner consistent with applicable regulations. Reporting: Report spills to local authorities und/or the U.S. Coast Guard's National Response Center at (800) 424-Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing Protective Measures: Eliminate all sources of ignition in vicinity of spilled material

## SECTION 7 HANDLING AND STORAGE

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

hot surfaces. Use only in well ventilated areas. Keep container closed. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe gas. Wash thoroughly after handling. Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and

rescue of a person over exposed to H2S without wearing approved supplied-air or self-contained breathing equipment. If there is a potential for exceeding one-half the occupational exposure standard, monitoring of hydrogen sulfide levels is required. Since the sense of smell cannot be relied upon to detect the presence of H2S, transport vessels which contain or have contained this material. Persons opening or entering these compartments the concentration should be measured by the use of fixed or portable devices. should first determine if H2S is present. See Exposure Controls/Personal Protection -Section 8. Do not attempt Unusual Handling Hazards: Toxic quantities of hydrogen sulfide (H2S) may be present in storage tanks and bulk

To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient.

Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks may rupture with explosive force Empty containers retain product residue (solid, liquid, and/or vapor) and can be Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures

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static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### GENERAL CONSIDERATIONS:

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

#### ENGINEERING CONTROLS:

Use in a well-ventilated area

### PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include. Nitrile Rubber. Skin Protection: Wear protective clothing to prevent skin contact. Selection of protective clothing may include

Respiratory Protection: No respiratory protection is normally required.

If material is heared and emits hydrogen sulfide, eletermine if airborne concentrations are below the occupational exposure limit for hydrogen sulfide. If not, wear an approved positive pressure air-supplying respirator. For more information on hydrogen sulfide, see Chevron MSDS No 301. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For airpurifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Highly refined mineral oil (C15 - C50)	ACGIH	1	5 mg/m3	10 mg/m3	1	7
Highly refined mineral oil	OSHA Z-1	1	5 mg/m3	1	1	1

nes for appropriate values.

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification

Odor: Hydrocarbon odor Vapor Density (Air = 1): Initial Boiling Point: 3 Physical State: Liquid Color: Light to Brown Not Applicable Soluble in hydrocarbons, insoluble in water No data available <0.01 mmHg @ 37.8 °C (100 °F) 315°C (599°F)

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