









## 8.1 Control parameters

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillate , hydrotreated heavy paraffinic	TWA: 5 mg/m3 as oil mist, mineral	TWA: 5 mg/m3 as oil mist, mineral	-
Calcium carbonate	-	TWA: 15 mg/m3 TWA : 5.0 mg/m3	TWA : 10 mg/m3 total dust TWA: 5.0 mg/m3 respirable dust
Molybdenum ( IV ) Sulfide	TWA : 10.0 mg/m3 Mo inhalable fraction ; TWA : 3 mg/m3 Mo respirable fraction	TWA : 15 mg/m3 total dust ( vacated ) TWA : 10 mg/m3 Mo	IDLH : 5000 mg/m3 MO

*Immediate dangerous to life or health. ACGIH TLV: American Conference of Government Industrial Hygienists – Threshold Limit Values. OSHA PEL: Occupational Safety and Health Administration – Permissible Limits.*

**Other Exposure Guidelines:** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F. 2d 962. (11<sup>th</sup> Cir., 1992).

### 8.2 Appropriate engineering controls

**Engineering Measures:** Showers  
Eyewash stations  
Ventilation systems

### 8.3 Individual protection measures, such as personal protective equipment:

**Eye/Face Protection:** Safety glasses with side-shields. Risk of contact, wear: Chemical splash goggles.

**Skin and Body Protection:** Impervious clothing. Protective gloves.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Hygiene Measures** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### 8.4 Personal protective equipment pictograms



### 8.5 Environmental Exposure controls

Minimize release to the environment. Follow best practices for site management and disposal of waste as per local regulations

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### Information on physical and chemical properties

**Material description**

Appearance	Semi-solid
Color	Black
Odor	Slight hydrocarbon
Odor threshold	Data not available
<b>General properties</b>	
Boiling point	No data available
pH	Not applicable
Specific gravity (15 °C)	0.87, 7.506 (lbs/gal)
Flash point, COC, °F/°C	257 / 495
Upper/lower flammability limits	No data available
Auto-ignition temperature	No data available
Flammability	No data available
VOC, % wt., ASTM D-972	No data available
Vapor pressure @ ambient temp.	< 0.13 kPa (< 1 mm Hg)
Vapor density (air =1)	< 1
Explosive properties	No data available
Oxidizing properties	No data available
<b>Other Information</b>	
Electrical conductivity	Though no data available, this material is not expected to be a static accumulator

**SECTION 10: STABILITY AND REACTIVITY**

<b>10.1 Reactivity :</b>	No reactivity is expected under normal conditions of intended use. However, under high temperature or adverse operating conditions thermal / chemical decomposition of the product may be possible
<b>10.2 Chemical Stability :</b>	No hazardous reaction is expected under normal conditions of temperature and pressure
<b>10.3 Possibility of hazardous reactions</b>	None under normal processing
<b>10.4 Hazardous Polymerization</b>	Not likely to occur
<b>10.5 Conditions to avoid</b>	Extreme temperature and direct sunlight / heat /flame
<b>10.6 Incompatible materials</b>	Strong oxidizing agents or strong reducing agents
<b>10.7 hazardous decomposition products</b>	Carbon dioxides , Nitrogen oxides ( NOX) , Sulfur oxides

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on Likely Routes of Exposure**

**Inhalation:** There is no data available for this product.

**Eye Contact:** Causes serious eye irritation.

**Skin Contact:** Causes mild skin irritation

**Ingestion:** There is no data available for this product

Chemical name	LD 50 Oral	LD 50 Dermal	LC 50 inhalation
Calcium carbonate	6450 mg/kg (rat)	-	-
Molybdenum ( IV ) Sulfide	-	-	> 2820 mg/m3 ( rat ) 4 h

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

### Delayed and immediate effects and also chronic effects from short and long term exposure :

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. The classification listed below for the petroleum distillates in this product pertains to those that contain more than 3% DMSO extract as measured by IP 346. The petroleum distillates in this product do not meet that criteria to be classified as carcinogens.

Chemical Name	ACGIH	IARC	NTP	OSHA
Petroleum distillate , hydrotreated heavy naphthenic	A2	Group 1	-	X
Petroleum distillate , hydrotreated heavy paraffinic	A2	Group 1	-	X

### ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 – suspected human carcinogen

### IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

### OSHA: (Occupational Safety & Health Administration)

x- Present

**Reproductive Toxicity:** No information available.

**STOT - single exposure:** No information available.

**STOT - repeated exposure:** No information available.

**Aspiration Hazard:** No information available

### Numerical measures of toxicity – Product:

**Acute Toxicity:** 37.73 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of GHS document

## SECTION 12: ECOLOGICAL INFORMATION

### Eco-toxicity:

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Micro-organisms	Daphnia Magna ( Water Flea)

Petroleum distillate , hydrotreated heavy naphthenic 64742-52-5		LC50 : >5000 mg/l, 96 hrs ( oncorhynchus mykiss )		EC 50 : >1000 mg/l, 48 hrs ( Daphnia magna )
Petroleum distillate , hydrotreated heavy naphthenic 64742-54-7		LC50 : >5000 mg/l, 96 hrs ( oncorhynchus mykiss )		EC 50 : >1000 mg/l, 48 hrs ( Daphnia magna )

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Other Adverse Effects:** No information available

## **SECTION 13: DISPOSAL INFORMATION**

### **13.1 Waste treatment methods**

**Product disposal**

Try to minimize the product waste by using best applicable practices. It is the responsibility of the waste generator to evaluate the waste classification and appropriate disposal methodology in accordance with the applicable regulation. Do not dispose in to environment, in drain or in river / ponds / water reservoirs.

**Container disposal**

To be disposed in accordance with local prevailing and allowable regulations.

## **SECTION 14: TRANSPORT INFORMATION**

	<b>Bulk shipping</b>	<b>Non-bulk shipping</b>	<b>Identification #</b>	<b>Hazardous class</b>
US DOT	Not required	Not required	Not required	Not required
Canadian TDG	Not required	Not required	Not required	Not required
European	Not required	Not required	Not required	Not required
ADR, IMDG, IATA-DGR	Not classified as hazardous product for land, sea and air transport			

## **SECTION 15: REGULATORY INFORMATION**

### **Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/ NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**OSHA Hazard Communication Standard:** This material is considered hazardous in accordance with OSHA HAzCom 2012, 29 CFR 1910.1200.

### **U.S. Federal Regulations**



Section 313 of Title III ,of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

**Acute Health Hazard:** Yes  
**Chronic Health Hazard:** Yes  
**Fire Hazard:** No  
**Sudden Release of Pressure Hazard:** No  
**Reactive Hazard;** No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42

**CERCLA:**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). However, there may possibly be specific reporting requirements at the county, regional, or state level related to releases of this material.

**U.S. State Regulations:**

**California Proposition 65**

This product does not contain the following Proposition 65 chemicals:

**U.S. State Right-to-Know Regulations**

"X" designates that the ingredients are listed on the state right to know list

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Pennsylvania</b>	<b>Massachusetts</b>	<b>Illinois</b>	<b>Rhode Island</b>
Petroleum distillate , hydrotreated heavy naphthenic 64742-52-5				x	
Petroleum distillate , hydrotreated heavy naphthenic 64742-54-7				x	
Calcium Carbonate	X	X	X		

**U.S. EPA Label Information:**

**EPA Pesticide Registration Number:** Not applicable

**International Inventories:**

**WHMIS:** This product is not a controlled product.

**Canadian NPRI:** none of the components are listed

**CEPA toxic substance:** none of the components are listed

**Europe (EINECS/ELINCS/NLP):** All components are listed or exempted from EU listing requirements.

**Australia Inventory (AICS):** All components are listed or exempted

**China Inventory (IECSC):** All components are listed or exempted

**Japan Inventory:** All components are listed or exempted

**Korea Inventory:** All components are listed or exempted

**Thailand Inventory:** All components are listed or exempted

**Malaysia Inventory (EHS Register):** Not determined

**New Zealand inventory of Chemicals (NZIoC):** All components are listed or exempted

**Philippines Inventory (PICCS):** All components are listed or exempted

## **SECTION 16: OTHER INFORMATION**

	NFPA	HMIS	KEY
Health	1	1	0 = Minimal
Flammability	1	1	1 = slight
Instability	0	0	2 = Moderate
Physical & Hazard	-	C	3 = Serious

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**Prepared by:** Riverside Laboratories

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