

# MATERIAL SAFETY DATA SHEET


## PERMAPOL P875 DLC<sup>®</sup>-A

Date Revised: September 20, 2011

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### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Permapol P875 DLC-A  
CHEMICAL NAME: Mercaptan terminated polythioether on silicon dioxide

Company:  NATROCHEM, INC.  
P.O. Box 1205  
Savannah, GA 31402-1205

<b>HMIS RATING</b>	
<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>REACTIVITY</b>	<b>0</b>

Telephone Numbers:

Transportation Emergencies:

CHEMTREC (U.S.A.): (800) 424-9300 (24 hours)

CHEMTREC (International): (202) 483-7616 (24 hours, call collect)

Product Information: (912) 236-4464 (EST, 8:00AM – 4:00PM M-F)

### SECTION 2 - COMPONENTS

COMPONENT NAME	CAS#	PEL	TLV	TWA
Silicon Dioxide	112926-00-8	N/DA	N/DA	6mg/m <sup>3</sup> (OSHA) 10mg/m <sup>3</sup> (ACGIH)
Polythioether	119147-78-3	N/DA	N/DA	N/DA

### SECTION 3 - PHYSICAL DATA

Boiling Point: N/A	Specific Gravity: 1.315 (Calculated)
Vapor Pressure (mm Hg): N/A	Percent Volatiles: 0.0
Vapor Density (Air = 1): Heavier than air	Evaporation Rate: Unavailable
Solubility in Water: Negligible	Odor: strong sulfur - characteristic
Appearance: Tan, free-flowing powder	

### SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): Not flammable

FLAMMABLE LIMITS: N/DA

AUTOIGNITION TEMPERATURE: N/DA

EXTINGUISHING MEDIA: Dry chemical, CO<sub>2</sub>, foam, or water spray

SPECIAL FIRE FIGHTING PROCEDURES: Use complete personal protection including air supplied respirator.  
Use water to cool heat exposed containers.

UNUSUAL FIRE & EXPLOSION HAZARDS: None known.

### SECTION 5 - HEALTH HAZARD DATA

CHRONIC HEALTH EFFECTS: An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed for an average of 18 years. No adverse effects were noted in complete medical examination (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree or duration of dust exposure. Laboratory studies have also been conducted in small animals via inhalation to levels of precipitated silica dust of up to 126 mg/m<sup>3</sup> for periods from six months to two years. Although precipitated silica was temporarily deposited in the animal's lungs, most of the deposited material was cleared soon after the dust exposure ended. The results of all studies performed by, or known to, PPG indicate a very low order of pulmonary activity for synthetic precipitated silica.

PRIMARY ROUTE OF ENTRY- Inhalation

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: None

NTP: No IARC: No OSHA: No

TOXICITY:	LD50	LC50
Silicon Dioxide	acute oral >5g/kg	Acute Inhalation: Nuisance dust
Dimercapto Diethyl Sulfur	toxic oral (rats) 164 mg/kg	

EFFECTS OF EXPOSURE-

EYES- Mildly irritating. Excessive contact with powder can cause drying of mucous membranes of eyes due to absorption of moisture and oils.

SKIN- Mildly irritating.

INHALATION- Nuisance dust. Excessive contact with powder can cause drying of mucous membranes of nose and throat due to absorption of moisture and oils. This material can also cause nasal irritation and nosebleeds.

INGESTION- Not significantly toxic.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE- Persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection.

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#### SECTION 6 - EMERGENCY & FIRST AID PROCEDURES

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EYE CONTACT: Immediately rinse with clean water for 15 minutes. Retract eyelids often. If irritation persists, seek medical attention.

SKIN CONTACT: Immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. Seek medical attention if ill effect or irritation develops.

INHALATION: If overcome by exposure, remove victim to fresh air. If symptoms are present, consult a physician.

INGESTION: Dilute by drinking large quantities of water. Consult a physician.

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#### SECTION 7 - REACTIVITY DATA

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STABILITY: Stable.

MATERIALS TO AVOID- Avoid alteration of product properties before reuse. Avoid calcining, which may result in crystalline formation. Avoid mixing with additives which may alter toxicological properties. Avoid acids, acidic salts, bases, oxidizing agents.

CONDITIONS TO AVOID- Avoid high temperatures treatment (>800° C).

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, phenol and formaldehyde vapors when burned.

HAZARDOUS POLYMERIZATION: Will not occur.

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**SECTION 8 - SPILL OR LEAK PROCEDURES**

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: MINIMIZE SPILL AREA. Vacuum spill material and place in closed plastic bags for disposal. Prevent runoff from entering drains, sewers, or streams.

WASTE DISPOSAL METHOD: In accordance with local, state, and federal regulations.

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**SECTION 9 - SPECIAL PROTECTION INFORMATION**

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RESPIRATORY PROTECTION: Use a respirator such as 3M 9900 or equivalent for protection against pneumoconiosis producing dusts.

VENTILATION: Provide explosion proof ventilation as required to control airborne dust levels. The sum total of all ingredients may emit vapors during normal processing. All possible health effects are not known and individual sensitivities will vary. Effective exhaust ventilation should always be provided to draw dust, fumes and vapors away from workers to prevent routine inhalation. Ventilation should be adequate to maintain ambient workplace atmosphere below the limits listed in Section V.

PROTECTIVE GLOVES: Impervious gloves to protect against contact with product.

EYE PROTECTION: Safety goggles.

OTHER PROTECTIVE EQUIPMENT: Protective clothing, eye wash station, safety shower.

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**SECTION 10 - SPECIAL PRECAUTIONS**

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HANDLING AND STORAGE: Handling can create explosive dust clouds. Eliminate ignition sources, use explosive proof equipment. Conveying and processing equipment should be spark-proof, well bonded and grounded. Avoid dust accumulations.

OTHER PRECAUTIONS: Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse.

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**SECTION 11 - REGULATORY INFORMATION**

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TOXIC SUBSTANCE CONTROL ACT (TSCA): The components of this product are listed or exempted.

CHEMICAL INVENTORIES:

OSHA:

The component(s) listed below is identified as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

INGREDIENT	AMOUNT	ACGIH (TLV)	OSHA (PEL)	UNITS
Silicon Dioxide	28%	10	6	mg/m3

**SARA 313 TOXIC CHEMICALS:**

This product does not contain any chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and the Pollution Prevention Act of 1990.

This information must be included in all MSDS's that are copied and distributed for this material.

**SECTION 311/312 - HAZARD CATEGORIES:**

The physical and health hazard categories for the hazardous components exceeding the de minimis amount subject to reporting under Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372

Name of Chemical	Hazard	Percent in Product
Silicon Dioxide	Acute	28%

**ADDITIONAL RIGHT-TO-KNOW INFORMATION ON COMPONENTS:**

None Known.

**TRANSPORTATION INFORMATION:**

DOT Shipping Name: Not regulated by D.O.T.

DOT Identification Number:

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**SECTION 12 - OTHER INFORMATION**

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Revision Note: Review and reissue. Prepared by: Craig Moore

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N/A = Not applicable N/D = Not determined N/DA = No Data Available N/E = Not established

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