

# MATERIAL SAFETY DATA SHEET

## CALSOL 8240 DLC<sup>®</sup>-A

Date Revised: October 7, 2011

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### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Calsol 8240 DLC-A  
CHEMICAL NAME: Petroleum hydrocarbon on silicon dioxide

Company:



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

HMIS RATING	
Health	1
Flammability	1
Reactivity	0

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 - HAZARDOUS INGREDIENTS

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	CAS REGISTRY	PERCENT
Silicon Dioxide	112926-00-1	26-30

### SECTION 3 - PHYSICAL DATA

Boiling Point: >260°C (500°F)	Specific Gravity: 1.063 (Calc.)
Vapor Pressure (mm Hg): Negligible	Percent Volatiles: N/DA
Vapor Density (Air = 1) : >5	Evaporation Rate: Negligible
Solubility in Water: Insoluble	Odor: mineral oil
Appearance: Off-white, free flowing powder.	

### SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): >140°C (284°F)(PMCC)

FLAMMABLE LIMITS: N/DA

AUTOIGNITION TEMPERATURE: N/DA

EXTINGUISHING MEDIA: Dry chemical or water spray or CO<sub>2</sub> or foam. Water may cause frothing. Water may be ineffective. Closed containers exposed to fire may be cooled with water.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to cool containers exposed to flames.

UNUSUAL FIRE & EXPLOSION HAZARDS: Dense smoke. Fire fighters should wear an approved self-contained breathing apparatus.

### SECTION 5 - PERMISSIBLE EXPOSURE LIMITS

Silicon Dioxide: OSHA: 6 mg/m<sup>3</sup> (total dust), 8 hr. TWA; 29 CFR 1910.1000 (rev. 3/1/89). PPG Internal Permissible Exposure Limit (IPEL); Synthetic Precipitated Silicate: 5 mg/m<sup>3</sup> (respirable dust), 8 hr. TWA.

If used in an application where a mist may be generated, observe a TWA/PEL of 5 mg/m<sup>3</sup> for mineral oil mist (OSHA & ACGIH).

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**SECTION 6 - HEALTH HAZARD DATA**

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**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. The major component of this product, Calsol 8240 is listed as "YES" under SARA 311 criteria.

In accordance with the current OSHA Hazard Communication Standard criteria, this product does not require a cancer hazard warning. This is because the product is formulated from base stocks which are severely hydrotreated, severely solvent extracted, and/or processed by mild hydrotreatment and extraction. Alternatively, it may consist of components not otherwise affected by IARC criteria, such as atmospheric distillates or synthetically derived materials, and as such is not characterized by current IAERC classification criteria.

**PRIMARY ROUTE OF ENTRY-** Inhalation and ingestion.

**CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:** None.

NTP: No                      IARC: No                      OSHA: No

**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. Prolonged or repeated skin contact may cause dermatitis (skin irritation) or oil acne.

**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-** May cause cramps and diarrhea.

**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. Persons susceptible to dermatitis (skin rash) may aggravate their condition by skin contact with this product.

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**SECTION 7 - 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.

**INGESTION:** DO NOT induce vomiting. Contact a physician.

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**SECTION 8 - 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 that may alter toxicological properties. Avoid strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

**CONDITIONS TO AVOID-** Avoid high temperature treatment (>800 C).

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, nitrogen and sulfur.

**HAZARDOUS POLYMERIZATION:** Will not occur.

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**SECTION 9 - 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.

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

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**SECTION 10 - 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 11 - 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 12 - ENVIRONMENTAL INFORMATION**

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This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

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

**THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUES:**

**Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102):**  
No RQ for product or any constituent greater than 1% or 0.1% (carcinogen).

**Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-313):**  
No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312):  
Silicon Dioxide- Acute Hazard

The components of this product are included on the TSCA Chemical Substance Inventory.

TRANSPORTATION: Not regulated.

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SECTION 13 - OTHER INFORMATION

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Revision Note: updated CAS number for silicon dioxide.

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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