

# MATERIAL SAFETY DATA SHEET

## CALIGHT RPO DLC®-A


Date Revised: June 20, 2000

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### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Calight RPO 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 II - 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 #	ACGIH (TLV)	OSHA (PEL)	UNITS
Silicon Dioxide	7631-86-9	10	6	mg/m <sup>3</sup>

### SECTION III - PHYSICAL DATA

Boiling Point: IBP > 260EC

Specific Gravity: 1.064

Vapor Pressure (mm Hg): Negligible

Percent Volatiles: N/DA

Vapor Density (Air = 1): >5

Evaporation Rate: Negligible

Solubility in Water: Insoluble

Appearance and Odor: Off-white, free flowing powder with mineral oil odor.

### SECTION IV - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): 150EC (PMCC) Material may ignite at or above the flash point if an ignition source is present.

FLAMMABLE LIMITS: N/DA

AUTOIGNITION TEMPERATURE: N/DA

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water fog, and foam.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to flames. Fire fighters should wear respiratory protection (positive pressure if available).

UNUSUAL FIRE & EXPLOSION HAZARDS: Fumes, smoke and oxides of carbon.

### SECTION V - 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 animals 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.

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**SECTION V - HEALTH HAZARD DATA (cont)**

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PRIMARY ROUTE OF ENTRY- Inhalation, eye and skin.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: None.

NTP: NO

IARC: NO

OSHA: NO

EFFECTS OF EXPOSURE-

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

SKIN- Mildly irritating. May cause reversible skin irritation. Prolonged skin contact may cause dermatitis 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. Breathing mists may cause dizziness or pulmonary irritation.

INGESTION- Not significantly toxic. 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.

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**SECTION VI - 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. Consult a physician.

INGESTION: Do not induce vomiting. Consult a physician.

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**SECTION VII - REACTIVITY DATA**

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STABILITY: Stable.

MATERIALS TO AVOID- Avoid alteration of product properties before reuse. Calcining, which may result in crystalline formation or mixing with additives may alter toxicological properties. Strong oxidizers. Never permit oil to get in an oxygen regulator.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and other combustion products of hydrocarbons when burned.

HAZARDOUS POLYMERIZATION: Will not occur.

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**SECTION VIII - 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. Consult your SPCC plan.

**WASTE DISPOSAL METHOD:** In accordance with local, state, and federal regulations. Material may become hazardous waste through use.

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**SECTION IX - 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 X - 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 XI - REGULATORY INFORMATION**

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**TOXIC SUBSTANCE CONTROL ACT (TSCA):**

The components of this product are contained on the Inventory of the Toxic Substance Control Act.

**SARA TITLE III INFORMATION:**

**SECTION 313 - TOXIC CHEMICALS:**

This product contains the following 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):

CAS REGISTRY #	CHEMICAL NAME	PERCENT BY WEIGHT
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This product does not contain a toxic chemical in excess of 1% of the mixture.

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

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**SECTION XI - REGULATORY INFORMATION (Cont.)**

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**SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES:**

This product does not contain an extremely hazardous substance.

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

The physical and health hazard categories for this product are:

Fire Hazard: N/A

Sudden Release of Pressure Hazard: N/A

Reactivity Hazard: N/A

Immediate (Acute) Health Hazard: Silicon Dioxide

Delayed (Chronic) Health Hazard: N/A

**TRANSPORTATION INFORMATION:**

DOT Shipping Name: N/DA

DOT Identification Number: N/DA

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**SECTION XII - OTHER INFORMATION**

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Revision Note: Added CHEMTREC information.

Prepared by: James L. Pye, Jr.

Title: Safety Coordinator

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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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