

# MATERIAL SAFETY DATA SHEET

## CI-50 DLC®-A


Date Revised: February 20, 2002

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### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: CI-50 DLC-A

CHEMICAL NAME: Coumarone Indene Resin on Silicon Dioxide

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

HMIS RATING	
Health	2
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 REGISTRY	PERCENT
Silicon Dioxide	7631-86-9	~ 28

### SECTION III - PHYSICAL DATA

Boiling Point: N/A	Specific Gravity: 1.267
Vapor Pressure (mm Hg): Nil	Percent Volatiles: <0.1
Vapor Density (Air = 1): N/A	Evaporation Rate: N/A
Solubility in Water: Negligible	
Appearance and Odor: Off-white, free flowing powder with typical CI odor.	

### SECTION IV - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): 350°F (COC)

FLAMMABLE LIMITS: N/DA

AUTOIGNITION TEMPERATURE: N/DA

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon monoxide. Water or foam may cause frothing.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to keep fire-exposed containers cool. Pressure-demand, self-contained, breathing apparatus should be provided for firefighters in buildings or confined areas where product is stored. If a spill has not ignited, use water spray to disperse the vapors and to provide protection for men attempting to stop the spill. Water spray may be used to flush spills away from exposures. Minimize breathing gases, vapor, fumes or decomposition products.

UNUSUAL FIRE & EXPLOSION HAZARDS: None.

### SECTION V - 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.

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**SECTION VI - HEALTH HAZARD DATA**

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**HEALTH HAZARD DATA:** 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, skin and eyes.

**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-** Prolonged or repeated exposure to liquid or mist may cause dry skin, irritation and 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.

**INGESTION-** Vomiting due to irritation of the digestive tract is common. Keep airway clear

**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 VII - EMERGENCY & FIRST AID PROCEDURES**

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**EYE CONTACT:** Immediately rinse with clean water for 15 minutes. Retract eyelids often. 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.

**INHALATION:** If overcome by exposure, remove victim to fresh air. Call a physician immediately. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available.

**INGESTION:** Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Seek Medical Attention

**NOTES TO PHYSICIAN:** None known.

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**SECTION VIII - 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.

CONDITIONS TO AVOID- Avoid high temperatures (>800°C) treatment. Open flames, high temperatures, electric arc.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and sulfur and hydrocarbons and other decomposition products in the case of incomplete combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

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**SECTION IX - 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 X - 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 XI - 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. Store in cool, well ventilated area of non-combustible construction away from possible sources of ignition.

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 XII - ENVIRONMENTAL INFORMATION**

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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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NONE.

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

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

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).

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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 XIII - OTHER INFORMATION**

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Revision Note: Removed petroleum process oil as an ingredient.

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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