

# MATERIAL SAFETY DATA SHEET


## SF96-350 DLC®-A

Date Revised: June 22, 2000

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### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: SF96-350 DLC-A  
CHEMICAL NAME: Dimethylpolysiloxane on silicon dioxide

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

<b>HMIS RATING</b>	
<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	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, 8:00 a.m. – 4:00 p.m. M-F)

### SECTION II - COMPONENTS

COMPONENT NAME	CAS#	PEL	TLV	TWA
Silicon Dioxide	7631-86-9	N/DA	N/DA	6mg/m3 (OSHA) 10mg/m3 (ACGIH)
Dimethylpolysiloxane	63148-62-9	NE	NE	NA

### SECTION III - PHYSICAL DATA

Boiling Point: > 400° F  
Vapor Pressure (mm Hg): Neg.  
Vapor Density (Air = 1): N/A  
Solubility in Water: Insoluble  
Appearance and Odor: Off-white, odorless, free-flowing powder.

Specific Gravity: 1.133  
Percent Volatiles: < 1  
Evaporation Rate: > 1.0

### SECTION IV - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): 301.6° C (PMCC)  
FLAMMABLE LIMITS: N/A  
AUTOIGNITION TEMPERATURE: N/A  
EXTINGUISHING MEDIA: Dry chemical, CO<sub>2</sub>, foam, or water spray  
SPECIAL FIRE FIGHTING PROCEDURES: None Known.  
UNUSUAL FIRE & EXPLOSION HAZARDS: None Known.

### 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 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.

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SECTION V - HEALTH HAZARD DATA (cont)

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PRIMARY ROUTE OF ENTRY- Inhalation & eyes

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
Dimethylpolysiloxane	acute oral, >40,000 mg/kg (rat)	Acute Inhalation: >535 mg/l (rat)

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.

OTHER: This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300° F and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

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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.

INGESTION: Rinse mouth with water several times. 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.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon & formaldehyde 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. Prevent runoff from entering drains, sewers, or streams.

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

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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.

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/m <sup>3</sup>

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SECTION XI - REGULATORY INFORMATION (Cont.)

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## SARA 313 TOXIC CHEMICALS:

This product contains the following toxic 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.

CAS REGISTRY #	CHEMICAL NAME	PERCENT BY WEIGHT
None.		

This information must be included in all MSDS' 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

DOT Identification Number:

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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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