

**NATROCHEM, INC.**Post Office Box 1205  
Savannah, Georgia 31402-1205  
(912) 236-4464**MATERIAL SAFETY  
DATA SHEET****POLYESTER G50 DLC®-A**

Date Revised: July 18, 1997

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**SECTION I - PRODUCT IDENTIFICATION**TRADE NAME: Polyester G50 DLC-A  
CHEMICAL NAME: Polyester on silicon dioxide

HMIS RATING	
Health	1
Flammability	1
Reactivity	0

**SECTION II - COMPONENTS**

COMPONENT NAME	CAS#
Polyester	Proprietary
Silicon Dioxide	7531-86-9

**SECTION III - PHYSICAL DATA**

Boiling Point: Not determined	Specific Gravity: 1.302 (Calculated)
Vapor Pressure (mm Hg): Not Determined	Percent Volatiles: Not Determined
Vapor Density (Air = 1): Not Determined	Evaporation Rate:
Solubility in Water: Insoluble	
Appearance and Odor: Off-white, free flowing powder with mild odor.	

**SECTION IV - FIRE & EXPLOSION DATA**FLASH POINT (Method Used): 510°F (COC)  
FLAMMABLE LIMITS: Not determined  
AUTOIGNITION TEMPERATURE: Not determinedEXTINGUISHING MEDIA: Use water spray, foam, CO<sub>2</sub>, or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing. Water may be ineffective, but should be used to keep fire exposed containers cool. If a spill or leak has not ignited, use water spray to disperse the vapors.

UNUSUAL FIRE &amp; 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 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.

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.

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 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: 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. Avoid contact with strong oxidizers and strong bases.

CONDITIONS TO AVOID- Avoid high temperatures (> 800 C) treatment. Keep away from heat and flames.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon 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. Transfer to secure containers. In the event there is an uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and/or regulations.

**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 NIOSH/MSHA approved respirator above PEL or TLV such as a 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.

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

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**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	ACGIH (TLV)	OSHA (PEL)	UNITS
Silicon Dioxide	10	6	mg/m3

**SARA TITLE III INFORMATION:****SECTION 313 - TOXIC CHEMICALS:**

This product does not contain any toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR 372.

CAS REGISTRY #	CHEMICAL NAME	PERCENT BY WEIGHT
None.		

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

**SECTION 302 & 304 - EXTREMELY HAZARDOUS SUBSTANCES:**

This product does not contain an Extremely Hazardous Substance subject to reporting under 40CFR 355.

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

The physical and health hazard categories for this product are:

Silicon Dioxide - 28% - Acute Hazard

**CERCLA:**

This product does not contain any chemical subject to reporting as a CERCLA Hazardous Substance under 40CFR 372.

**RCRA:**

This product is not a hazardous waste as listed in 40CFR 261.33. It does not exhibit any of the hazardous characteristics listed in 40CFR 261 Subpart C.

**TRANSPORTATION INFORMATION:**

DOT Shipping Name: Not regulated

DOT Identification Number:

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**SECTION XII - OTHER INFORMATION**

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Revision Note: New raw material MSDS.

Prepared by: James L. Pye, Jr.

Title: Safety Coordinator

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