


MATERIAL SAFETY DATA SHEET
B-3000 DLC[®]-A-70

Date Revised: October 18, 2011

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: B-3000 DLC-A-70
CHEMICAL NAME: 1, 2-Polybutadiene 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 – COMPONENT INFORMATION

COMPONENT NAME	CAS#	PEL	TLV	TWA
1, 2-Polybutadiene	9003-17-2	N/DA	N/DA	N/DA
Silicon Dioxide	112926-00-8	N/DA	N/DA	6mg/m3 (OSHA) 10mg/m3 (ACGIH)

Contains no detectable crystalline silica (detection limit <0.01% by weight).

SECTION 3 - PHYSICAL DATA

Boiling Point: N/DA	Specific Gravity: 1.023 (Calculated)
Vapor Pressure (mm Hg): N/DA	Percent Volatiles: N/DA
Vapor Density (Air = 1): N/DA	Evaporation Rate: N/DA
Solubility in Water: Negligible	Odor: very low

Appearance: Off-white, free flowing powder.

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): >121°C (>250°F) (COC)

FLAMMABLE LIMITS: N/DA

AUTOIGNITION TEMPERATURE: N/DA

EXTINGUISHING MEDIA: Dry chemical, CO₂, foam, or water spray

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS: N/DA

SECTION 5 - 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/m³ 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.

IARC reviewed the data on amorphous silica in 1996 and concluded there was inadequate evidence for both epidemiology and experimental studies that amorphous silica is a carcinogenic risk. The organization concluded that amorphous silica is in Group 3.

PRIMARY ROUTE OF ENTRY- Inhalation, skin and ingestion

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: None

NTP: No

IARC: No

OSHA: No

TOXICITY:

1, 2-Polybutadiene

Silicon Dioxide

LD50

oral (mouse) >4000mg/kg

acute oral >5g/kg

LC50

Acute Inhalation: Nuisance dust

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. Eye contact with powder can result in mild irritation.

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.

SECTION 6 - EMERGENCY & FIRST AID PROCEDURES

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. If symptomatic, consult a poison control center, emergency room or physician for treatment information.

INGESTION: Gently wipe or rinse the inside of the mouth with water. Sips of water can be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician for treatment information.

SECTION 7 - REACTIVITY DATA

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 acids and strong oxidizing agents

CONDITIONS TO AVOID- Avoid high temperature treatment (>800°C) treatment. Avoid contact with air or oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon when burned.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 8 - SPILL OR LEAK PROCEDURES

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.

SECTION 9 - SPECIAL PROTECTION INFORMATION

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.

SECTION 10 - SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Handling can create explosive dust clouds. Eliminate ignition sources, use explosion 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.

SECTION 11 - REGULATORY INFORMATION

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 ³

SARA 313 TOXIC CHEMICALS:

This product contains no 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.

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%

ECOTOXICOLOGICAL INFORMATION:

EC₀: >1000 ppm (daphnia magna) (24-hour acute immobilization test)

EC₀: >10,000 ppm (rainbow trout) (4-day static study)

EC₀: >10,000 ppm (freshwater fish) (96-hour static acute toxicity study)

ADDITIONAL REGULATORY INFORMATION ON COMPONENTS:**TSCA:**

All components of the product all listed on the TSCA Inventory

USA TSCA: Silicon dioxide is listed on the TSCA Inventory as its general CAS# 7631-86-9

EUROPE EINECS: Silicon dioxide is listed on EINECS (231-545-4) as its general CAS# 7631-86-9

CANADA DSL: Silicon dioxide is listed on the Canadian DSL.

AUSTRALIA AICS: Silicon dioxide is listed on AICS.

KOREA ECL: Silicon dioxide is listed on ECL.

JAPAN MITI (ENCS): This product is listed on MITI.

PHILIPPINES PICCS: Silicon dioxide is listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).

TRANSPORTATION INFORMATION:

DOT Shipping Name:

DOT Identification Number:

SECTION 12 - OTHER INFORMATION

Revision Note: Review and reissue

Prepared by: Craig Moore

N/A = Not applicable N/D = Not determined N/DA = No Data Available N/E = Not established

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