MATERIAL SAFETY DATA SHEET
R153 DLC®-68

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

HMIS RATING	
HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

TRADE NAME: R153 DLC-70
CHEMICAL NAME: Polybutadiene Polymer on Calcium Silicate

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

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 - COMPONENTS

COMPONENT NAME	CAS#
Synthetic Calcium Silicate	1344-95-2
1,2 Polybutadiene Polymer	9003-17-2

SECTION 3 - PHYSICAL DATA

Boiling Point: N/DA
Vapor Pressure (mm Hg): Very Low
Vapor Density (Air = 1): N/D
Solubility in Water: Nil
Appearance: Off white, free flowing powder

Specific Gravity: 1.10 (Calculated)
Percent Volatiles: <1.5
Evaporation Rate: Very Slow
Odor: mild hydrocarbon

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): >300°F (COC)
FLAMMABLE LIMITS: N/DA
AUTOIGNITION TEMPERATURE: N/DA
EXTINGUISHING MEDIA: Foam or water spray, CO2, dry chemical, water.
SPECIAL FIRE FIGHTING PROCEDURES: Keep containers cool with water from hose.
UNUSUAL FIRE & EXPLOSION HAZARDS: Will tend to polymerize thermally at temperatures above 400°F. Once initiated, the reaction generates sufficient heat to continue spontaneously. Heat from fire can generate flammable vapors. Such fires are very smoky. Personal contact with hot product after a fire can cause severe burns due to high temperature.

SECTION 5 - HEALTH HAZARD DATA

HEALTH EFFECTS: 5 mg/m3 respirable nuisance dust, OSHA. 10 mg/m3 total nuisance dust, ACGIH. Prolonged or repeated exposure to excessive concentrations of this product dust or nay nuisance dust can cause chronic pulmonary disease.

ACUTE TOXICITY DATA:

Acute Oral LD50	Acute Dermal LD50	Acute Inhalation LC50
>4000 mg/kg (mice)		

PRIMARY ROUTE OF ENTRY- Inhalation, dust contact with the eyes.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: 1,3 butadiene monomer has been determined to be a suspected carcinogen. Tests have shown that the polybutadiene resins contain less that the detection limit of .4 mg/g of monomer.
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. Pre-existing upper respiratory and lung disease such as, but not limited to bronchitis, emphysema and asthma.

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.

INGESTION: Not expected to present a significant ingestion hazard under normal use.

SECTION 7 - REACTIVITY DATA

STABILITY: Stable.

MATERIALS TO AVOID- Hydrofluoric acid, strong oxidizers, strong acids.

CONDITIONS TO AVOID- Oxidizing conditions, extreme temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Small quantities of butadiene along with oxides of carbon.

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.

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 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.

SECTION 11 - REGULATORY INFORMATION

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
Calcium Silicate	32%	10	5	mg/m3

SARA 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 of 1986 and the Pollution Prevention Act of 1990.

CAS REGISTRY #	CHEMICAL NAME	PERCENT BY WEIGHT

This information must be included in all MSDS's 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
Calcium Silicate	Acute	32%

ADDITIONAL RIGHT-TO-KNOW INFORMATION ON COMPONENTS:

TRANSPORTATION INFORMATION: Not regulated.
DOT Shipping Name:
DOT Identification Number:

SECTION 12 - OTHER INFORMATION

Revision Note: Corrected calcium silicate content Date: January 15, 2015
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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