MATERIAL SAFETY DATA SHEET

TAC DLC®-A-50

Date Revised: December 18, 2014

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: TAC DLC-A-50
CHEMICAL NAME: Triallyl Cyanurate on Silicon Dioxide

HMIS RATING	
Health	2
Flammability	1
Reactivity	0

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 - 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	112926-00-8	48-52
Triallyl Cyanurate	101-37-1	48-52

SECTION 3 - PHYSICAL DATA

Boiling Point: 120º C
Vapor Pressure (mm Hg): N/DA
Vapor Density (Air = 1): N/DA
Solubility in Water: Slightly Soluble
Appearance: Off-white free flowing powder *above 25°C*.
Specific Gravity: 1.259
Percent Volatiles: Nil
Evaporation Rate: Not noted
Odor: Mild

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): >80°C (>176°F) (COC)
FLAMMABLE LIMITS: N/A
AUTOIGNITION TEMPERATURE: Not noted

EXTINGUISHING MEDIA: Water fog, foam, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes; cool exposed equipment with water spray; water or water foam may cause frothing which can be violent and possibly endanger fire fighter, especially if sprayed into container of hot, burning liquid.

UNUSUAL FIRE & EXPLOSION HAZARDS: Slight fire hazard when exposed to heat of flame.

SECTION 5 - PERMISSIBLE EXPOSURE LIMITS & TOXICITY

Silicon Dioxide: OSHA: 6 mg/m3 (total dust), 8 hr. TWA; 29 CFR 1910.1000 (rev. 3/1/89). PPG Internal Permissible Exposure Limit (IPEL); Synthetic Precipitated Silicate: 5 mg/m3 (respirable dust), 8 hr. TWA.

SECTION 6 - 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.

PRIMARY ROUTE OF ENTRY- Inhalation, eye contact, skin contact and ingestion.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: None
NTP: No IARC: No OSHA: No

EFFECTS OF EXPOSURE-

EYES- Irritating and may injure eye tissue if not removed promptly. Excessive contact with powder can cause drying of mucous membranes of eyes due to absorption of moisture and oils.

SKIN- Mildly irritating. Frequent or prolonged contact may irritate the skin.

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. Negligible hazard at ambient temperature. Irritating and/or toxic vapors may be released at elevated temperatures.

INGESTION- Not significantly toxic. Ingestion effects have not been evaluated but are assumed to cause nausea and vomiting.

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 7 - 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: Treat symptomatically and supportively. Get medical attention.

SECTION 8 - REACTIVITY DATA

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. Strong acid, peroxides and metallic impurities.

CONDITIONS TO AVOID- Avoid high temperatures (>800º C) (>1472°F) treatment.

HAZARDOUS DECOMPOSITION PRODUCTS: Highly toxic cyanide gas may be emitted when heated to decomposition.

HAZARDOUS POLYMERIZATION: Will occur. Hazardous polymerization may occur at temperatures above 150F, or when contaminated with metals such as copper, nickel, manganese or mercury, or their compounds.

SECTION 9 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: MINIMIZE SPILL AREA. Shut off ignition sources. Stop leak if you can do it with risk. No smoking, flames or flares in hazard area. Keep unnecessary people away. Vacuum spill material and place in closed plastic bags for disposal.

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

SECTION 10 - 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 11 - 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 12 - ENVIRONMENTAL INFORMATION

This product contains no 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):

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

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

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).

Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312):

Silicon Dioxide- Acute Hazard
TAC - Acute Hazard

The components of this product are included on the TSCA Chemical Substance Inventory.

TRANSPORTATION: Not regulated.

SECTION 13 - OTHER INFORMATION

Revision Date: December 18, 2014 Revision Note: Corrected CAS# 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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