

MATERIAL SAFETY DATA SHEET
TAIC DLC® -A

Date Revised: September 20, 2011

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: TAIC DLC-A
CHEMICAL NAME: Triallyl isocyanurate 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 - COMPONENTS

INGREDIENT	wt%	CAS #	ACGIH (TLV)	OSHA (PEL)	UNITS
Silicon Dioxide	28	112926-00-8	10	6	mg/m ³
TAIC	72	1025-15-6			

SECTION 3 - PHYSICAL DATA

Boiling Point: 144°C (291°F) Specific Gravity: 1.315 (Calculated)
Vapor Pressure (mm Hg): 3 / 144°F Percent Volatiles: N/DA
Vapor Density (Air = 1): N/A Evaporation Rate: N/A
Solubility in Water: 0.34 wt. % (30°C) Odor: non-irritating
Appearance: Off-white powder

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): 245°C (473°F) (PMMC)

FLAMMABLE LIMITS: N/A

AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: Water spray, dry chemical, carbon dioxide, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear respiratory equipment and full protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS: A small amount of Hydrogen Cyanide (HCN) will be generated from this product at incomplete combustion. In case of fire, it is important to wear respiratory equipment and full protective clothing.

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.

Acute oral toxicity LD50= 666 mg/kg (mouse). Acute oral toxicity LC50 (96 hr.) = 238 ppm (orange-red killifish)

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.

SECTION 6 - EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: Immediately rinse with clean water for 15 minutes. Retract eyelids often. 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 inhaled, remove victim to fresh air. If not breathing, clear victim's airway and start mouth-to-mouth artificial respiration, which may be supplemented by the use of a bag-mask respirator or manually triggered oxygen supply capable of delivering one liter per second or more. If victim is breathing, supplemental oxygen may be given from a demand-type or continuous-flow inhaler, preferably with a physician's advice. Get medical attention immediately.

INGESTION: If swallowed, dilute with water (by giving glasses of water to victim) then induce vomiting (by giving victim strong salty water or by sticking finger down throat). Get medical attention immediately.

STABILITY: Stable when stored properly (under 30°C (86°F) in the dark).

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 peroxides, azo compounds and radical-generating substances.

CONDITIONS TO AVOID- Avoid temperatures above 43°C (110°F). A risk of polymerization and exothermic reaction exists above 70°C (158°F). Avoid exposure to light and polymerization catalysts which may cause depletion of the polymerization inhibitor. Avoid calcining temperatures (above 800°C) which may cause silica to become crystalline.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon when burned.

HAZARDOUS POLYMERIZATION: May occur when improper handling and/or storage cause depletion of inhibitor. See Section X for more information.

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 explosion-proof equipment. Conveying and processing equipment should be spark-proof, well bonded and grounded. Avoid dust accumulations. Avoid fire, direct sunlight, dust, oxidizing agents and metallic impurities. Keep containers tightly closed in a dry, well-ventilated place. If the product has become hard or "frozen" it can be returned to free-flowing by warming to 30-43°C (86-110°F) for a short time, such as overnight. Do not hold at elevated temperatures for prolonged time. Do not over heat. See section VII for conditions to avoid.

OTHER PRECAUTIONS: Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Launder contaminated clothing before reuse.

SECTION 11 - ENVIRONMENTAL INFORMATION

This product contains the following 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):

CAS REGISTRY #	CHEMICAL NAME	PERCENT BY WEIGHT
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NONE.

This information must be included in all MSDS's 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

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

TRANSPORTATION: Not regulated.

SECTION 12 - OTHER INFORMATION

Revision Note: Updated CAS number for HiSil. Revision Date: September 20, 2011

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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