

**NATROCHEM, INC.**

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**MATERIAL SAFETY
DATA SHEET****NATRO-CEL™ TATM-A**

Date Revised: September 16, 1997

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SECTION I - PRODUCT IDENTIFICATION

TRADE NAME: Natro-cel TATM-A
CHEMICAL NAME: Triallyl Trimellitate on Silicon Dioxide

HMIS RATING	
Health	1
Flammability	1
Reactivity	0

SECTION II - COMPONENTS

COMPONENT NAME	CAS#
Triallyl Trimellitate	2694-54-4
Silicon Dioxide	7531-86-9

SECTION III - PHYSICAL DATA

Boiling Point: 320°F @ 0.1 mm Hg. Specific Gravity: 1.316
Vapor Pressure (mm Hg): N/D Percent Volatiles: 70
Vapor Density (Air = 1): N/DA Evaporation Rate: N/DA
Solubility in Water: Insoluble
Appearance and Odor: Off-white, free flowing powder with mild odor.

SECTION IV - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): 266°F (COC) for DLC product.
FLAMMABLE LIMITS: N/D
AUTOIGNITION TEMPERATURE: N/D

EXTINGUISHING MEDIA: Dry chemical, water spray (fog), or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Standard fire fighting clothing and eye protection should be worn. Proper respiratory protection should be used to prevent breathing products of combustion and fumes of allylic compounds if evolved. Use water stream to cool exposed containers.

UNUSUAL FIRE & EXPLOSION HAZARDS: Fumes of allylic compounds may be produced.

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/m³ 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)

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. Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

INGESTION- Expected to be slightly thru oral ingestion.

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 VI - 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: If swallowed, give two glasses of water.

SECTION VII - 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.

CONDITIONS TO AVOID- Avoid high temperatures (> 800 C) treatment.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and fumes of allylic compounds may evolve.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VIII - 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: Under the CERCLA/RCRA regulations in effect December 29, 1986 this product is not regulated as a hazardous waste or material. Therefore, it may be disposed of as an industrial waste management practice and in compliance with applicable local, state, and federal regulations.

SECTION IX - 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 X - 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. Triallyl trimellitate is stable to prolonged storage. UV light or temperatures greater than 200°F can cause polymerization.

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

SECTION XI - REGULATORY INFORMATION

TOXIC SUBSTANCE CONTROL ACT (TSCA):

The components of this product are contained on the Inventory of the Toxic Substance Control Act.

SECTION XI - REGULATORY INFORMATION (Cont.)

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
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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 this product are:

Name	Hazard	Percent
Silicon Dioxide	acute hazard	28

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:

DOT Identification Number:

SECTION XII - OTHER INFORMATION

Revision Note: Revised due to change in flash point.

Prepared by: James L. Pye, Jr.

Title: Safety Coordinator

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

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