

# MATERIAL SAFETY DATA SHEET

## NATRO-CEL 759-A

Date Reviewed: September 26, 2011

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### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Natro-Cel 759-A  
CHEMICAL NAME: Mixed Ester, Ester Monomers 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 - 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	26-30

### SECTION 3 - PHYSICAL DATA

Boiling Point: N/E	Specific Gravity: 1.197
Vapor Pressure (mm Hg): N/E	Percent Volatiles: 1
Vapor Density (Air = 1) : <0.1	Evaporation Rate: N/A
Solubility in Water: Slightly soluble	Odor: slight solvent odor
Appearance: Off-white, free flowing powder	

### SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): >200° F (Setaflash Closed Cup)

FLAMMABLE LIMITS: N/E

AUTOIGNITION TEMPERATURE: N/E

EXTINGUISHING MEDIA: Small fires: Use dry chemical, carbon dioxide, halon, water spray, or foam. Large fires: Use water spray, fog, or alcohol foam.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters and others who may be exposed to the products of combustion should be equipped with NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS: None known.

### SECTION 5 - PERMISSIBLE EXPOSURE LIMITS

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

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**SECTION 6 - HEALTH HAZARD DATA**

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**CHRONIC HEALTH EFFECTS:** Silicon Dioxide: 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/m<sup>3</sup> 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-** Silicon Dioxide: Inhalation. TP-759: Eyes, skin and inhalation.

**CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:** None.

NTP: NO IARC: No OSHA: No

**EFFECTS OF EXPOSURE-**

**EYES-** Silicon Dioxide: Mildly irritating. Excessive contact with powder can cause drying of mucous membranes of eyes due to absorption of moisture and oils. TP-759: Slight incidental contact is not expected to produce adverse effects.

**SKIN-** Silicon Dioxide: Mildly irritating. TP-759: Irritation can occur following prolonged or repeated contact.

**INHALATION-** Silicon Dioxide: 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. TP-759: Under normal conditions of use, no adverse effects are expected.

**INGESTION-** Silicon\_Dioxide: Not significantly toxic. TP-759: Can cause nausea, vomiting, and gastrointestinal upset.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-** Silicon Dioxide: 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.

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**SECTION 7 - EMERGENCY & FIRST AID PROCEDURES**

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**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. Call a physician immediately.

**INGESTION:** Seek medical attention. Unless advised otherwise, induce vomiting by giving either syrup of IPECAC followed by 2 glasses of water or by sticking finger down throat.

**NOTE TO PHYSICIAN:** Treatment should be directed at preventing absorption, administering to the symptoms as they occur, and providing supportive therapy.

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**SECTION 8 - REACTIVITY DATA**

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STABILITY: Stable.

MATERIALS TO AVOID- for the silica component of this product, avoid alteration of product properties before reuse. Avoid calcining, which may result in crystalline formation. Avoid mixing with additives that may alter toxicological properties. For the TP-759 componen of this product, avoid oxidizing agents, acids.

CONDITIONS TO AVOID- Silicon Dioxide: Avoid high temperature treatment(>800° C).

HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, soot, and oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

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**SECTION 9 - SPILL OR LEAK PROCEDURES**

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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.

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**SECTION 10 - SPECIAL PROTECTION INFORMATION**

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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.

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**SECTION 11 - SPECIAL PRECAUTIONS**

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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. Store in a cool, dry well ventilated area.

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

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**SECTION 12 - ENVIRONMENTAL INFORMATION**

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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): NONE.

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

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

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  
TP-759- Acute Hazard

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

TRANSPORTATION: Not regulated.

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#### SECTION 13 - OTHER INFORMATION

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Revision/Review Note: Updated CAS number for silica

Prepared by: Craig Moore

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

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