


MATERIAL SAFETY DATA SHEET
Natro-Cel 35-R-60

Date Revised: January 25, 2013

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: NATRO-CEL 35-R-60
CHEMICAL NAME: Trimethylolpropane trimethacrylate on silicon dioxide

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

HMIS RATING	
Health	2
Flammability	1
Reactivity	2

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, 8:00 a.m. – 4:00 p.m. M-F)

SECTION 2 - COMPONENTS

COMPONENT NAME	CAS#	% COMPOSITION
Trimethylolpropane trimethacrylate	3290-92-4	AP 54
Silicon Dioxide	112926-00-8	AP 40
Nitroso Aromatic Amine		AP 1.3
Other Esters		AP 4.7

SECTION 3 - PHYSICAL DATA

Boiling Point: N/DA	Specific Gravity: 1.310 (Calculated)
Vapor Pressure (mm Hg): N/DA	Percent Volatiles: Negligible
Vapor Density (Air = 1): N/DA	Evaporation Rate: N/DA
Solubility in Water: Negligible	Odor: faint
Appearance: White, free flowing powder.	

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): >93°C (>200°F) (PMCC)

FLAMMABLE LIMITS: N/DA

AUTOIGNITION TEMPERATURE: N/DA

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical, water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Do not enter area without proper protection. Decomposition products possible. Fight fire from safe distance, protected location. Heat and/or impurities may increase temperature, build pressure, or rupture closed containers, spreading fire, increasing risk of burn or injuries. Water may be ineffective in firefighting due to low solubility. Use water spray or fog for cooling.

UNUSUAL FIRE & EXPLOSION HAZARDS: High temperatures, inhibitor depletion, accidental impurities, exposure to radiation, oxidizers, may cause spontaneous polymerization reaction, generating heat and pressure. Closed containers may rupture and explode during runaway polymerization.

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.

PRIMARY ROUTE OF ENTRY- Eye, inhalation, and skin

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: None.

NTP: No

IARC: No

OSHA: No

EFFECTS OF EXPOSURE-

EYES- May cause moderate irritation, including burning sensation, tearing, redness and swelling. Excessive contact with powder can cause drying of mucous membranes of eyes due to absorption of moisture and oils.

SKIN- May cause delayed skin irritation and blistering.

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- This material may be a slight health hazard if ingested in large quantities.

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 20-30 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. If sticky, use waterless cleaner first. Seek medical attention if ill effect or irritation develops.

INHALATION: If overcome by exposure, remove victim to fresh air. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

INGESTION: If large quantities swallowed, give lukewarm water (pint) if victim completely conscious/alert. Do not induce vomiting; risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

SECTION 7 - 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 oxidizers, free radical initiators, inert gases, oxygen scavengers.

CONDITIONS TO AVOID- Avoid high temperature treatment (>800°C). Avoid calcining which may alter silica properties. Avoid direct sunlight, strong oxidizing conditions, ultraviolet radiation, and inert gas blanketing.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon when burned and acrid smoke.

HAZARDOUS POLYMERIZATION: May 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. Use dust suppressant. Report per regulatory requirements. Release can cause fire or explosion. May polymerize and release heat or gases. Liquids and vapors may ignite. Evacuate and limit access. Equip responders with proper protection. Kill all ignition sources. Prevent flow to sewers and public waters. Blanket with firefighting foam. Restrict water use for cleanup.

WASTE DISPOSAL METHOD: In accordance with local, state, and federal regulations. Contaminated product, soil or water may be RCRA/OSHA hazardous waste due to potential for internal heat generation (See 40 CFR 261 and 29 CFR 1910).

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	ACGIH (TLV)	OSHA (PEL)	UNITS
Silicon Dioxide	10	6	mg/m ³

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
	Nitroso Aromatic Amines	1.3

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

SECTION 302 & 304 - EXTREMELY HAZARDOUS SUBSTANCES:

This product does not contain an Extremely Hazardous Substance subject to reporting under 40CFR 355.

SECTION 311/312 - HAZARD CATEGORIES:

The physical and health hazard categories for this product are:

Immediate (Acute) Health Hazard: Silicon Dioxide - 40%

Delayed (Chronic) Health Hazard: None

Fire Hazard: None

Sudden Release of Pressure Hazard: None

Reactivity Hazard: None

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: N/DA

DOT Identification Number:

SECTION 12 - OTHER INFORMATION

Revision Note: Original Issue

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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