

MATERIAL SAFETY DATA SHEET
Natro-Cel[®] 1312

Date Revised: September 30, 2011

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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

TRADE NAME: Natro-Cel 1312

CHEMICAL NAME: Acrylonitrile/Butadiene Polymer on Calcium Silicate

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

HMIS RATING	
HEALTH	0
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)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT NAME	CAS#	%	PEL & TLV (except as noted)
Acrylonitrile/Butadiene Polymer	9003-18-3	72	N/D
Synthetic Calcium Silicate	1344-95-2	28	5 mg/M ³ Respirable Nuisance Dust, OSHA 10 mg ³ Total nuisance dust, ACGIH

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Prolonged and repeated exposure to excessive concentrations of any nuisance dust can cause chronic pulmonary disease.

EYE: Mildly irritating. Excessive contact with powder can cause drying of mucous membranes of eyes, due to absorption of moisture and oils.

SKIN: Mildly irritating. Nipol 1312 may contain a trace amount of p-t-butyl phenol as a component of the antioxidant package. Although rare, there are reports of depigmentation of the skin (vitiligo) associated with this compound in related elastomer products. Contact with skin should be avoided by the use of gloves and other appropriate personal protective equipment.

INGESTION: Not significantly toxic.

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. In extreme exposures some congestion may occur. No adverse health effects are expected during normal processing when potential exposures are eliminated by good industrial hygiene practice and well ventilated conditions. At process in temperatures the combined ingredients may emit fumes and vapors that may cause irritation to the eyes, nose, skin, throat and respiratory tract.

4. FIRST AID MEASURES

INHALATION: Remove the affected individual to fresh air and seek medical assistance immediately.

EYE/SKIN CONTACT: Immediately rinse eyes with clean water for 15 minutes. Retract eyelids often. If irritation persists, seek medical attention. If in contact with skin, 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.

INGESTION: Not a likely route of exposure.

5. FIRE FIGHTING MEASURES

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

EXTINGUISHING MEDIA: Water, ABC dry chemical, or Protein type air foams are recommended media. Elastomers would be considered "ordinary combustibles" (NFPA defined Class A). Carbon dioxide is generally not recommended for use on Class A fires as a lack of cooling capacity may result in re-ignition.

SPECIAL FIRE FIGHTING PROCEDURES: Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

UNUSUAL FIRE & EXPLOSION HAZARDS: Closed containers may rupture due to pressure buildup under fire conditions. Toxic gases may be formed upon combustion and represents a hazard to firefighters. See Section VII for additional information on combustion products.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Minimize spill area. Vacuum spill material and place in closed plastic bags for disposal.

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.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: CALCIUM SILICATE

8-hour Time Weighted Average (TWA); 15-minute Short-Term Exposure Limit (STEL)

OSHA: 5 mg/m³ (respirable nuisance dust) TWA. 29 CFR 1910.1000

ACGIH: 10 mg/m³ (total nuisance dust) TWA.

RESPIRATORY PROTECTION: Use NIOSH approved dust filter respirator for exposure above permissible exposure limits. The respiratory use limitations made by NIOSH or the manufacturer must be observed. Respiratory protection programs must be in accordance with 29 CFR 1910.134.

VENTILATION: General or local exhaust sufficient to maintain employee exposure below permissible exposure limits.

EYE AND FACE PROTECTION: If eye exposure to powder is likely, use tight fitting protective goggles.

PROTECTIVE GLOVES: Cloth. Leather. Rubber

OTHER PROTECTIVE EQUIPMENT: Boots, apron, or chemical suits should be used when necessary to prevent skin contact. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.132 (general requirements), .133 (eye and face protection), and .138 (hand protection).

Nipol 1312 contains a trace amount of p-t-butyl phenol as a component of the antioxidant package. Although rare, there are reports of pigmentation of the skin (vitiligo) associated with this compound in

8. EXPOSURE CONTROLS/PERSONAL PROTECTION, CONT'D.

related elastomer products. We recommend that contact with exposed skin be avoided by the use of gloves and other personal protective equipment appropriate for handling and/or processing.

INGREDIENT	CAS#	AMOUNT	ACGIH (TLV)	OSHA (PEL)	UNITS
Acrylonitrile	107-13-1	<10 ppm	2 (TWA)	2 (TWA)	ppm
Butadiene	106-99-0	<0.2 ppm	1 (TWA)	2 (TWA)	ppm
4-Vinyl Cyclohexane	100-40-3	<0.1% est.	0.1 (TWA)	N/E	ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/DA	VAPOR DENSITY (Air=1): N/DA
SPECIFIC GRAVITY (Water = 1): ~1.163 (Calculated)	FREEZING/MELTING POINT: N/A
SOLUBILITY (wt.% in water): Insoluble	% VOLATILES: <1
VAPOR PRESSURE: N/DA	EVAPORATION RATE: N/DA
PHYSICAL STATE: Free-flowing powder	COLOR: Off-white
ODOR: Characteristic of acrylonitrile/butadiene	

10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Fumes produced when heated to decomposition temperatures may contain oxides of carbon, hydrogen cyanide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons. Combustion products from rubber, like those of other natural and synthetic materials, must be considered toxic.

INCOMPATIBILITY (CONDITIONS TO AVOID): Hydrofluoric Acid. High temperatures (>800°C) treatment (calcining). Avoid alteration of product properties before use. Calcining, which may result in crystalline formation, or mixing with additives may alter toxicological properties.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

None known.

11. TOXICOLOGICAL INFORMATION

ACUTE INHALATION LC50: Nuisance dust

ACUTE DERMAL LD50: N/A

SKIN IRRITATION: Mildly irritating.

EYE IRRITATION: Mildly irritating.

ACUTE ORAL LD50: Estimated >5 g/kg. Not significantly toxic.

CHRONIC EFFECTS/CARCINOGENICITY: This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC.

MEDICAL CONDITIONS AGGRAVATED: Persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory

EFFECTS OF OVEREXPOSURE: N/D

ACUTE: Excessive contact with powder can cause drying of mucous membranes of nose, eyes, and throat due to absorption of moisture and oils. This material can also cause nasal irritation and nosebleeds. Eye contact with powder can result in mild irritation.

11. TOXICOLOGICAL INFORMATION, CONT'D.

CHRONIC: Prolonged and repeated exposure to excessive concentrations of any nuisance dust can cause chronic pulmonary disease. Dust contact with eyes may cause temporary scratchiness or redness.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No information available.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

USA DOT DESCRIPTION:

Proper Shipping Name: Not regulated

15. REGULATORY INFORMATION

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

EUROPE EINECS:

CANADA DSL:

AUSTRALIA AICS:

KOREA ECL:

JAPAN MITI (ENCS): This product is listed on MITI.

PHILIPPINES PICCS:

SARA TITLE III:

SARA (311,312) Hazard Class: HAZARD CATEGORIES:

The physical and health hazard categories for the hazardous components exceeding the de minimis amount subject to reporting under Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372

ADDITIONAL RIGHT-TO-KNOW INFORMATION ON COMPONENTS:

Component	CAS#	Key
Acrylonitrile	107-13-1	2,8
Butadiene	106-99-0	2,8
4-Vinyl Cyclohexane	100-40-3	2
Acrylonitrile/Butadiene Polymer	9003-18-3	7,13

Description	Description
Reserved	MA Extraordinary Hazardous Substance above 1 ppm
CA Listed Carcinogen	MA Toxic or Hazardous Substance above 1%
CA Listed Reproductive Toxin	NJ Hazardous Substance above 1%
PA Special Hazardous Substance above 0.01%	NJ Special Health Hazard Substance above 0.1%
PA Hazardous Substance above 1%	NJ Environmental Hazardous Substance above 1%
PA Non-Hazardous Substance above 3%	NJ Non-Hazardous Substance above 1%
PA Non-Hazardous Substance above 5%	Canadian WHMIS Ingredient DLS

SARA (313) 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 of 1986 and the Pollution Prevention Act of 1990.

SARA Section 302: Not listed as an Extremely Hazardous Substance.

16. OTHER INFORMATION

Revision Note: Review and reissue

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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