

**NATROCHEM, INC.**Post Office Box 1205  
Savannah, Georgia 31498-4201  
(912) 236-4464**MATERIAL SAFETY  
DATA SHEET**

NATROCEL\* 1312

Date Revised: October 29, 1990

Page 1 of 4

**SECTION I - PRODUCT IDENTIFICATION**

TRADE NAME: Natrocel 1312  
CHEMICAL NAME: Copolymer of butadiene and acrylonitrile on calcium silicate  
SYNONYMS: Nipol\ elastomer  
CHEMICAL FAMILY: Elastomeric copolymer

**SECTION II - HAZARDOUS INGREDIENTS**

INGREDIENT	CAS REGISTRY	PERCENT	TLV	PEL's
Calcium Silicate	1344-95-2	28	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Acrylonitrile	107-13-1	(100 ppm)	2 ppm	2 ppm
Butadiene	106-99-0	(20 ppm)	10 ppm	10 ppm

TRANSPORTATION: Not regulated

**SECTION III - PHYSICAL DATA**

BOILING POINT: N/DA	SPECIFIC GRAVITY: 1.157
VAPOR PRESSURE (mm Hg): N/DA	PERCENT VOLATILES: N/DA
VAPOR DENSITY (Air = 1): N/DA	EVAPORATION RATE: N/DA
SOLUBILITY IN WATER: Insoluble	CAS #: 9003-18-3
APPEARANCE AND ODOR: Tan, free flowing powder with mild odor.	

**SECTION IV - FIRE & EXPLOSION DATA**

FLASH POINT (Method Used): N/A  
FLAMMABLE LIMITS: Lower - N/A Upper - N/A  
AUTOIGNITION TEMPERATURE: 700°F ASTM D-1929

MARKETED BY  
**HARWICK STANDARD  
DISTRIBUTION CORPORATION**

60 S. Seiberling Street • Akron, Ohio 44305

EXTINGUISHING MEDIA: Water, dry chemical, protein type air foams. Carbon dioxide is generally not recommended for use on Class A fires as a lack of cooling capacity may result in reignition.

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

UNUSUAL FIRE & EXPLOSION HAZARDS: None expected.

**SECTION V - WARNING STATEMENTS**

Calcium Silicate: Dust from this material is considered a nuisance particulate with a TLV of 2 mg/m<sup>3</sup>. May contain up to 3% Quartz (CAS # 14808-60-7).

**NATROCHEM, INC.**

Post Office Box 1205  
Savannah, Georgia 31498-4201  
(912) 236-4464

**MATERIAL SAFETY  
DATA SHEET**

NATROCEL 1312

Page 2 of 4

**SECTION VI - HEALTH HAZARD DATA**

**EXPOSURE LIMITS:** Not established for this product. TLV - 2 mg/m<sup>3</sup> for Calcium Silicate. TLV of 2 ppm for the Acrylonitrile and 18 ppm for the butadiene.

**CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:** Acrylonitrile and butadiene.  
**NTP:** Yes                      **IARC Monographs:** Yes                      **OSHA:** Yes

**EFFECTS OF OVEREXPOSURE:** -

**EYES - Calcium Silicate:** Temporary irritation and inflammation. Nipol 1312 Elastomer: May cause eye irritation. No adverse health effects nor exposure to significant amounts of residual monomers are expected when potential exposures are minimized during processing by good industrial hygiene practice and adequate ventilation. Nevertheless, at processing temperatures, elastomers may emit fumes and vapors that may cause eye or respiratory tract irritation. Any effect will depend upon processing technique and temperature, volume processed and, most importantly, the effectiveness of exhaust ventilation provided to the process.

**SKIN - Calcium Silicate:** N/A. Nipol 1312 Elastomer: Repeated or prolonged exposure may cause irritation.

**INHALATION - Calcium Silicate:** Congestion and irritation of the throat, nasal passages and upper respiratory system. Long term unprotected exposures to dust levels in excess of the PEL/TLV may cause lung disease (silicosis). Nipol 1312 Elastomer: See EYE above.

**INGESTION - Calcium Silicate:** Not hazardous when ingested. Nipol 1312 Elastomer: N/A

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE - Calcium Silicate:** Pre-existing upper respiratory and lung diseases such as, but not limited to bronchitis, emphysema and asthma.

**SECTION VII - 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 immediately. Call a physician.

**INGESTION:** N/A.

**SECTION VIII - REACTIVITY DATA**

**STABILITY:** Stable.

**MATERIALS TO AVOID:** Hydrofluoric acid.

**NATROCHEM, INC.**

Post Office Box 1205  
Savannah, Georgia 31498-4201  
(912) 236-4464

**MATERIAL SAFETY  
DATA SHEET**

NATROCEL 1312

Page 3 of 4

**SECTION VIII - REACTIVITY DATA (Cont.)**

**HAZARDOUS DECOMPOSITIONS PRODUCTS:** CO, CO<sub>2</sub>, and small amounts of oxides of nitrogen, aromatic and aliphatic hydrocarbons. Combustion products from rubber, like those of other natural and synthetic materials, must be considered toxic.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**SECTION IX - SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** MINIMIZE SPILL AREA. Impound and recover for large land spill; Use dust suppressant. Report per regulatory requirements.

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

**SECTION X - 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 the ambient workplace atmosphere below the limits listed in Section II.

**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 XI - 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.

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

**SECTION XII - SECTION 313 SUPPLIER NOTIFICATION**

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 and of 40 CFR 372:

<u>CAS #</u>	<u>Chemical Name</u>	<u>Percent by Weight</u>
107-13-1	Acrylonitrile	0.072
106-99-0	Butadiene	0.014

**NATROCHEM, INC.**

Post Office Box 1205  
Savannah, Georgia 31498-4201  
(912) 236-4464

**MATERIAL SAFETY  
DATA SHEET**

NATROCEL 1312

Page 4 of 4

\* NATROCEL is a Trademark of Natrochem, Inc.

N/A = Not Applicable N/D = Not Determined N/DA = No Data Available

The information given in this MSDS was obtained from sources which we believe are reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, Natrochem, Inc. makes no warranty expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.