



# MATERIAL SAFETY DATA SHEET

## Natro-Cel R-A

Revision Date: September 30, 2011

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### 1- PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: Natro-Cel R-A HMIS 1-1-0

SYNONYMNS: Naphthenic process oil with sulfonated, sodium salts -- dispersed on silica  
Validated on: October 29, 2008

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

For Product Information (8 a.m. to 4 p.m. Eastern time) telephone: 1-912-236-4464

Transportation Emergencies:

CHEMTREC (U.S.A.): (800) 424-9300 (24 hours)  
CHEMTREC (International): (202) 483-7616 (24 hours, call collect)

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### 2 - HAZARDOUS INGREDIENTS

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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
Amorphous Silicon Dioxide	112926-00-8	23-27

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### 3 - PHYSICAL DATA

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Boiling Point: N/DA	Specific Gravity: 1.23
Vapor Pressure (mm Hg): N/DA	Percent Volatiles: 1.075
Vapor Density (Air = 1): N/DA	Evaporation Rate: N/DA
Solubility in Water: Negligible	Odor: Slight petroleum
Appearance: Off-white, free flowing powder.	

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### 4 - FIRE & EXPLOSION DATA

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FLASH POINT (Method Used): N/A  
FLAMMABLE LIMITS: N/DA  
AUTOIGNITION TEMPERATURE: N/DA

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus.

UNUSUAL FIRE & EXPLOSION HAZARDS: None known.

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### 5 - PERMISSIBLE EXPOSURE LIMITS & TOXICITY

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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.  
OSHA & ACGIH: TLV-TWA 5 mg/m<sup>3</sup> for oil mist (aerosol) for an 8-hour workday.  
This product is judged to have an acute oral LD<sub>50</sub> (rat) <5 g/kg of body weight, and an acute dermal LD<sub>50</sub> (rabbit) <3.16 g/kg of body weight.

**CHRONIC HEALTH EFFECTS:** An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed for an average time span of 8.6 years. Of these 165 workers, 44 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. PPG recommends that 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.

**PRIMARY ROUTE OF ENTRY-** Inhalation, skin, eyes.

**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-** Prolonged or repeated contact with this product tends to remove skin oils possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant".

**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-** Has laxative properties and may result in abdominal cramps and diarrhea. Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

**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. Pre-existing skin conditions.

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#### 7 - EMERGENCY & FIRST AID PROCEDURES

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**EYE CONTACT:** Immediately rinse with clean water for 15 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. Seek medical attention if ill effect or irritation develops.

**INHALATION:** If overcome by exposure, remove victim to fresh air. Give artificial respiration if not breathing. Get medical attention.

**INGESTION:** DO NOT induce vomiting. If conscious, give lots of water or milk. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

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 such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

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

HAZARDOUS DECOMPOSITION PRODUCTS: May liberate oxides of carbon and unidentified organic compounds in black smoke.

HAZARDOUS POLYMERIZATION: Will not occur.

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#### 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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#### 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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#### 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.

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

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12 - ENVIRONMENTAL INFORMATION

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This product contains no 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).

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).

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Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312):

Silicon Dioxide- Acute Hazard

All components of this product are listed or exempted on the TSCA Chemical Substance Inventory.

TRANSPORTATION: Not regulated.

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13 - OTHER INFORMATION

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Revision Note: 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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