



## MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

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PRODUCT NAME: Natro-Cel R  
SYNONYMNS: Blend of calcium silicate, naphthenic process oil and sulfonated, sodium salts.  
Validated on: November 4, 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)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>
Hydrotreated Heavy Naphthenic Distillate	64742-52-5
Hydrotreated Light Naphthenic Distillate	64742-53-6
Synthetic Calcium Silicate	1344-95-2
Oil Soluble Sodium Sulfonate	Proprietary

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.

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.

4. FIRST AID MEASURES

INHALATION: If overcome by exposure, remove victim to fresh air. Call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen if available.

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.

MARKETED BY  
**HARWICK STANDARD  
DISTRIBUTION CORPORATION**  
60 S. Seiberling Street • Akron, Ohio 44305

## 5. FIRE FIGHTING MEASURES

FLASH POINT: 320 F (COC)

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus.

## 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.

## 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT NAME	CAS#	%	PEL & TLV (except as noted)
Hydrotreated Heavy Naphthenic Distillate	64742-52-5	31.4 - 62.9	5 mg/m <sup>3</sup> for Oil Mist, mineral (if used in way that generates a "mist")
Hydrotreated Light Naphthenic Distillate	64742-53-6	0 - 31.4	5 mg/m <sup>3</sup> for Oil Mist, mineral (if used in way that generates a "mist")
Synthetic Calcium Silicate	1344-95-2	28	5 mg/M <sup>3</sup> Respirable Nuisance Dust, OSHA 10 mg <sup>3</sup> Total nuisance dust, ACGIH
Oil Soluble Sodium Sulfonate	Proprietary	9.1	5 mg/m <sup>3</sup> for Oil Mist, mineral (if used in way that generates a "mist")

## Exposure Limits:

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

OSHA: 5 mg/m<sup>3</sup> (respirable nuisance dust) TWA. 29 CFR 1910.1000

ACGIH: 10 mg/m<sup>3</sup> (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).

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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BOILING POINT: N/DA  
SPECIFIC GRAVITY (Water = 1): 1.04  
SOLUBILITY (wt. % in water): Negligible  
VAPOR PRESSURE: N/DA  
PHYSICAL STATE: Free-flowing powder  
COLOR: Off-white

VAPOR DENSITY (Air=1): N/DA  
FREEZING/MELTING POINT:  
% VOLATILE: 1.075  
EVAPORATION RATE: N/DA  
ODOR: Mild petroleum/hydrocarbon

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#### 10. STABILITY AND REACTIVITY

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STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

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

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS: Oxides of carbon and sulfur; Smoke, fumes, aldehydes and other decomposition products are formed when burned.

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#### 11. TOXICOLOGICAL INFORMATION

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ACUTE INHALATION LC50: Nuisance dust

ACUTE DERMAL LD50: N/A

SKIN IRRITATION: Mildly irritating. Prolonged or repeated skin contact tends to remove skin oils possible 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 by OSHA criteria.

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

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

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

MEDICAL CONDITIONS AGGRAVATED: None known. Persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respirator protection.

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.

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.

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#### 12. ECOLOGICAL INFORMATION

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ECOTOXICOLOGICAL INFORMATION: No information available.

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#### 13. DISPOSAL CONSIDERATIONS

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

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#### 14. TRANSPORT INFORMATION

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USA DOT DESCRIPTION: Oil Soluble Sodium Sulfonate:

Proper Shipping Name: Elevated Temperature Solid, n.o.s., at or above 240° C (464° F)

Class: 9

UN ID #: UN3258

Packing Group: III

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#### 15. REGULATORY INFORMATION

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USA TSCA: The components of this product are listed on the TSCA inventory.  
 EUROPE EINECS: The components of this product are listed on the EINECS inventory.  
 CANADA DSL: The components of this product are listed on the DSL.  
 AUSTRALIA AICS: The components of this product are listed on the AICS inventory.  
 KOREA ECL: The components of this product are listed on the ECL.  
 JAPAN MITI (ENCS): The components of this product are listed on the MITI.

SARA TITLE III: Not listed.  
 SARA (311,312) Haz Class: N/A  
 SARA (313) Chemicals: Not listed.  
 SARA Section 302: Not listed as an Extremely Hazardous Substance.

OSHA: The components listed below are identified as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard 29CFR1910.1200:

Ingredient:	TLV	STEL	PEL	Units	%
Calcium Silicate	10		5	mg/mg3	~27
Petroleum Process Oil	10		5	mg/mg3	~73

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#### 16. OTHER INFORMATION

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Revision Date: November 4, 2008  
 Revision Note: Review  
 Prepared by: Craig Moore

NA = Not applicable ND = Not determined NDA = No Data Available NE = Not established

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