NATROCHEM, INC.
Post Office Box 1205
Savannah, Georgia 31402-1205
(912) 236-4464 Fax: (912) 236-1919

MSDS SHEET

NATRO-CEL™ 97-A-68

Date Revised: April 26, 2000

SECTION I - PRODUCT IDENTIFICATION

TRADE NAME: NATRO-CEL 97-A-68
CHEMICAL NAME: Heavy paraffinic distillate solvent extract on silicon dioxide

HMIS RATING	
Health	2
Flammability	1
Reactivity	0

SECTION II - COMPONENTS

INGREDIENT	CAS REGISTRY
Silicon Dioxide	7631-86-9
Aromatic Oils	64742-04-7

SECTION III - PHYSICAL DATA

Boiling Point: >315°C
Vapor Pressure (mm Hg) <0.0001
Vapor Density (Air = 1): 12.9
Solubility in Water: Nil
Specific Gravity: 1.143
Percent Volatiles: Nil
Evaporation Rate: 1000 x slower
Appearance and Odor: Brown, free flowing powder with slight odor.

SECTION IV - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): 410°F (COC)
FLAMMABLE LIMITS: N/D
AUTOIGNITION TEMPERATURE: 388°C (Estimated)

EXTINGUISHING MEDIA: water fog, chemical foam, dry chemical powder, carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus when fire fighting in confined space.

UNUSUAL FIRE & EXPLOSION HAZARDS: Can be made to burn (flash point greater than 200°F).

SECTION V - PERMISSIBLE EXPOSURE LIMITS

Silicon Dioxide: OSHA: 6 mg/m3 (total dust), 8 hr. TWA; 29 CFR 1910.1000 (rev. 3/1/89). PPG Internal Permissible Exposure Limit (IPEL); Synthetic Precipitated Silicate: 5 mg/m3 (respirable dust), 8 hr. TWA.

Aromatic Oil: 8 hr. time weighted permissible exposure 0.2 mg/m3 (Raw Material Manufacturer Recommendation).

SECTION VI - HEALTH HAZARD DATA

CHRONIC HEALTH EFFECTS: Silicon Dioxide: 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 animals 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- Inhalation and skin.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: Aromatic Oil
NTP: No IARC: Yes 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- May produce skin tumors with prolonged or repeated contact. Moderate irritation with prolonged or repeated contact. Avoid contact with skin. Repeated contact has produced skin cancer.

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- Slightly toxic (LD50 5-15 g/kg).

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE- Silicon Dioxide: 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 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.

INGESTION: Give liquids and induce vomiting unless victim is unconscious. Obtain medical assistance. Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone.

SECTION VIII - 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.

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

SECTION VIII - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

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. Vacuum spill material and place in closed plastic bags for disposal.

WASTE DISPOSAL METHOD: In accordance with local, state, and federal regulations. Do not flush to drain or storm sewer. Contract to authorized disposal service.

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 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 XI - SPECIAL PRECAUTIONS

HANDLING AND STORAGE: NFPA Class IIIB 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 XII - ENVIRONMENTAL INFORMATION

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 (40 CFR 372):

CAS REGISTRY #	CHEMICAL NAME	PERCENT BY WEIGHT

NONE.

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

SECTION XII - ENVIRONMENTAL INFORMATION

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUES:

Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102):
Aromatic Oil, 68% (carcinogen).

Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-313):
Aromatic Oil 68% (carcinogen).

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

Silicon Dioxide- 32% Acute Hazard
Aromatic Oil- 68% Chronic Hazard

The components of this product are included on the TSCA Chemical Substance Inventory.

TRANSPORTATION: Not regulated.

SECTION XIII - OTHER INFORMATION

Revision Note: New issue of MSDS.

Prepared by: James L. Pye, Jr.

Title: Safety Coordinator

N/A = Not applicable N/D = Not determined N/DA = No Data Available
N/E = Not established

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 express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.