

**NATROCHEM, INC.**

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**MATERIAL SAFETY
DATA SHEET****NATROCEL™ C70-A**

Date Revised: November 14, 1994

Supersedes: New Issue

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SECTION I - PRODUCT IDENTIFICATION

TRADE NAME: Natrocel C70-A
 CHEMICAL NAME: Chlorinated Paraffin on Silicon Dioxide

HMIS RATING	
Health	1
Flammability	1
Reactivity	0

SECTION II - HAZARDOUS INGREDIENTS

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 #	CGIH (TLV)	OSHA (PEL)	UNITS
Silicon Dioxide	7631-86-9	10	6	mg/m3

SECTION III - PHYSICAL DATA

Boiling Point: Decomposes
 Vapor Pressure (mm Hg): N/A
 Vapor Density (Air = 1): Nil
 Solubility in Water: Insoluble
 Appearance and Odor: Off-white, free flowing powder with no odor.

Specific Gravity: 1.605 (Calculated)
 Percent Volatiles: Non-Volatile
 Evaporation Rate: Nil

SECTION IV - FIRE & EXPLOSION DATA

FLASH POINT (Method Used): 450°F (COC)
 FLAMMABLE LIMITS: N/A
 AUTOIGNITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: Dry chemical, foam or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Protect against decomposition product of hydrogen chloride. Wear self contained breathing apparatus if this occurs.

UNUSUAL FIRE & EXPLOSION HAZARDS: Heating of non vented containers may cause explosion.

SECTION V - HEALTH HAZARD DATA

CHRONIC HEALTH EFFECTS: 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.

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SECTION V - HEALTH HAZARD DATA (cont)

Chlorinated paraffins are a class of compounds that are similarly manufactured, but vary in molecular structure by carbon chain length and degree of chlorination. Previous National Toxicology Program (NTP) Annual Reports have not listed any chlorinated paraffin as a carcinogen or potential carcinogen. The NTP has reported that in recent studies C₁₂, 58% chlorine chlorinated paraffin in combination with corn oil caused tumors when force fed at very high doses to rats and mice over long periods of time. The NTP also reported that C₂₄, 43% chlorine chlorinated paraffin under the same conditions caused an increase in tumors only in male mice. The lack of evidence of carcinogenicity in rats and female rats and in female mice is interpreted as demonstrating the absence of a carcinogenic potential to man. These tests represent extreme exposure conditions which are quite unlikely to be encountered by humans during manufacturing or handling of chlorinated paraffins. The relevance of these tests to industrial use of this product by humans, if any, has not been determined.

PRIMARY ROUTE OF ENTRY- Inhalation, ingestion.

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- Mildly irritating.

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- Not significantly toxic.

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.

SECTION VI - 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: N/DA

SECTION VII - 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 oxidizing and reducing agents.

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

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VIII - 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. Suggest incineration.

SECTION IX - 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 X - SPECIAL PRECAUTIONS

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.

SECTION XI - 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
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None.

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

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).

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

Silicon Dioxide - 22 % - Acute Hazard

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

TRANSPORTATION: Not regulated.

SECTION XII - OTHER INFORMATION

Revision Note: New Issue.

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

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