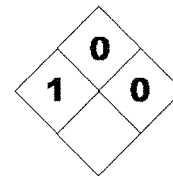


Health Hazard	3
Fire Hazard	0
Physical Hazard	0
Personal Protection	D

# MATERIAL SAFETY DATA SHEET (OSHA 29 CFR 1910.1200)



NFPA RATING

**HMIS RATING**

Effective Date: December 22, 2003  
Supersedes: All Previous Issued

Page 1 of 2

## SECTION I – PRODUCT INFORMATION

1. MANUFACTURER'S NAME AND ADDRESS:  
United States Mineral Products Company  
dba Isolatek International/CAFCO INDUSTRIES  
41 Furnace Street  
Stanhope, NJ 07874
2. EMERGENCY TELEPHONE NUMBER:  
973-347-1200
3. CHEMICAL NAME AND SYNONYMS  
Sodium Silicate Solution
4. CHEMICAL FAMILY:  
Inorganic Mineral Solution
5. FORMULA:  
[Na OH, Si O<sub>2</sub>]
6. TRADE NAMES AND SYNONYMS:  
CAFCO-BOARD™ ADHESIVE

## SECTION II – HAZARDOUS INGREDIENTS

Reportable Components	CAS Number	Vapor Pressure MM Hg @ Temp	Weight Percent
Sodium Silicate Solution	1344-09-8	N/A	50 go 85
Sodium Tetraborate Decahydrate	1303-96-4	N/A	1.0 to 5.0

SARA 313: No toxic chemical (s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372 are present.

## SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

- |    |  |   |
|----|--|---|
| 1. | Boiling Point (°F):                    | >212                                    |
| 2. | Vapor Density (Air=1):                 | Heavier than air                        |
| 3. | Solubility in Water:                   | Miscible                                |
| 4. | Specific Gravity (H <sub>2</sub> O=1): | 1.609                                   |
| 5. | VOC:                                   | 0.0 lb/gal                              |
| 6. | Evaporation Rate:                      | Faster than n-butyl acetate             |
| 7. | Appearance and Odor:                   | Light brown, viscous liquid, mild odor. |
| 8. | Physical State:                        | Viscous liquid                          |
| 9. | Percent Solid by Weight (%)            | 64                                      |

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

- |    |                                     |  |
|----|-------------------------------------|--|
| 1. | OSHA Flammability Class:            | Not regulated, Class IIIB  |
| 2. | Flash Point:                        | N/A  |
| 3. | Flammable Limits in Air by Volume   | Lower (LEL): N/A Upper (UEL): N/A  |
| 4. | Extinguishing Media:                | Water, Foam, Carbon Dioxide or Dry Chemical  |
| 5. | Special Fire Fighting Procedures:   | Wear positive pressure self-contained NIOSH approved breathing equipment.  |
| 6. | Unusual Fire and Explosion Hazards: | Sealed container may rupture. Keep cool with water. Prolonged contact with metals such as aluminum, tin, lead and zinc may produce flammable hydrogen gas. |

N/A = Not Applicable

## SECTION V - REACTIVITY DATA

- |    |                                       |   |
|----|---------------------------------------|---|
| 1. | Stability:                            | Stable  |
| 2. | Incompatibility (Materials to Avoid): | Strong oxidizing agents, acids  |
| 3. | Hazardous Decomposition By-Products:  | Carbon Monoxide, Carbon Dioxide, Hydrogen Gas   |
| 4. | Hazardous Polymerization:             | Will not occur  |
|    | Conditions to Avoid:                  | Mixture with or exposure to incompatible materials (see below) Prolonged contact with metals such as aluminum, tin, lead and zinc may produce flammable hydrogen gas. |

## SECTION VI - HEALTH HAZARD DATA

HEALTH HAZARDS (ACUTE and CHRONIC): Liquid contact is corrosive to the skin or eyes. Severe damage or skin sensitization may occur. Vapors/mists may be irritating to the eyes and corrosive to the upper respiratory tract.

Emergency and First Aid Procedures:

- |               |   |
|---------------|---|
| Eye Contact:  | Flush with water for 15 minutes with lids open. Seek medical attention. |
| Skin Contact: | Remove contaminated clothing. Wash affected area with soap and water.   |
| Inhalation:   | Remove to fresh air.  |

CARCINOGENICS: N/A    NTP CARCINOGEN: N/A    IARC MONOGRAPHS: N/A    OSHA REGULATED: N/A

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

1. Precautions To Be Taken in Handling and Storing: Do not store in aluminum containers or use aluminum fittings or transfer lines. Avoid contact with glass; glass will be etched. Avoid extreme heat and cold. Do not freeze. Do not breathe vapors or mists. Do not get liquid in eyes, on skin or on clothing.
2. Steps To Be Taken in Case Material is Released or Spilled: Ventilate area. Spill area will be slippery. Contain spill. Recover as much as possible for re-use. Spread commercial absorbent over remainder and place into sealed containers for disposal.
3. Waste Disposal Method: In accordance with local, state, and federal regulations. Most states prohibit disposal of liquids in landfills.
4. Other Precautions: As with all chemicals, good industrial hygiene and proper work habits should be observed.

## SECTION VIII - CONTROL MEASURES

- |    |                             |   |
|----|-----------------------------|---|
| 1. | Respiratory Protection:     | Usually not required; however, for confined areas or air with poor ventilation, or when this material or a mixture of it has dried to a dusty solid, use a dust respirator. |
| 2. | Ventilation:                | Mechanically exhaust vapors at point (s) of application. If applicable, maintain airborne contaminant levels of chemicals below their recommended TLV's. (See Section II)   |
| 3. | Protective Gloves:          | Wear rubber gloves to prevent skin contact.   |
| 4. | Eye Protection:             | Face shield.  |
| 5. | Other Protective Equipment: | Chemically resistant outer clothing or apron.   |
| 6. | Work/Hygienic Practices:    | Wash thoroughly before eating or smoking.   |

## SECTION IX- PREPARATION INFORMATION

Prepared By: Research Department, U.S.A.  
Telephone: (973) 347-1200  
Effective Date: Dec. 22, 2003

Supersedes: All Previous Issued

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