



Special Effects Equipment & Supplies

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For Chemical Emergency call Infotrac @ 1-800-535-5053

Material Safety Data Sheet

Section 1 - Product Information

Product Name: Silicate of Soda
Chemical Name: Sodium Silicate

Section 2 - Hazardous Ingredients

| <u>Chemical Name</u> | <u>CAS#</u> | <u>Percentage</u> |
|------------------------|------------------------------------|-------------------|
| Sodium Silicate | 1344-09-8 | 20-49% |
| Exposure Limits | Permissible Exposure Limit: | N/E |
| | Ceiling Limits: | N/A |
| | Short Term Exposure Limit: | N/A |
| | Can be harmful to skin?: | Yes |

Section 3 - Physical/Chemical Characteristics

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| Boiling Point | 214F | Solubility in Water | 100% |
| Vapor Pressure (mm Hg) | N/A | Specific Gravity (H2O = 1) | 1.32-1.61 |
| Vapor Density (Air = 1) | N/A | Melting Point | N/A |
| Appearance and Odor / Odor threshold | Clear to opaque, colorless liquid. Odorless to faint odor. | | |
| Evaporation Rate (Butyl Acetate = 1) | N/A | PH | 11.2-11.8 |
| Freezing Point | 30F | | |

Section 4 - Fire and Explosion Data

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| Lower Explosive/Flammability Limit | N/A | Flash Point | Not flammable |
| Upper Explosive/Flammability Limit | N/A | Autoignition Temperature | Not flammable |
| Extinguishing Media | Use extinguishing agents appropriate for surrounding fire. | | |
| Fire Fighting Measures | Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Wear appropriate personal protective equipment recommended in section 8. | | |
| Fire or Explosion Hazards | Negligible fire hazard. | | |

Section 5 - Reactivity Data

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| Chemical Stability | Stable at normal temperatures and pressure. Prolonged contact with incompatible metals may produce flammable hydrogen gas. |
| Conditions to Avoid | Prolonged storage above 140F. Contact with acids will cause gelling and evolution of heat. |
| Incompatibility | Acids, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc, or other alkali sensitive metals or alloys. |
| Hazardous Decomposition or Byproducts | None known |
| Hazardous Polymerization | Will not occur. |

Section 6 - Health Hazard Data

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| Routes of Entry | Inhalation, skin contact, eye contact, and ingestion. | |
| Health Hazards | IRRITATING TO RESPIRATORY TRACT, SKIN, EYES, AND GASTROINTESTINAL TRACT. | |
| | Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Keoo container tightly closed. Wash thoroughly after handling. Use only with | |
| | adequate ventilation. | |
| Carcinogenicity | Not a known carcinogen. | |
| Signs and Symptoms of Exposure | <u>Inhalation:</u> | Acute exposure may cause irritationof the respiratory tract, possibly with coughing, choking, and pain either immediately or more often within 72 hours. Chronic exposure, depending on the concentration and duration of exposure, repeated or prolonged exposure may cause inflammatory changes in the nose, sinuses and bronchial regions. |
| | <u>Skin Contact:</u> | Acute direct skin contact may cause irritation. Repeated or prolonged contact may result in dermatitis. |
| | <u>Eye Contact:</u> | Acute direct contact may cause irritation, pain, and corneal burns (possibly leading to blindness). The full extent of the injury may not be immediately apparent. Chronic exposure effects depend on concentration and duration of exposure. Repeated or prolonged contact may result in conjunctivitis. |
| | <u>Ingestion:</u> | Acute exposure may cause irritation of the esophagus and gastrointestinal tract. Repeated or prolonged ingestion may result in chronic irritation and possible ulcers. |
| | Medical conditions generally aggravated by exposure | |
| | Respiratory disorders, skin disorders, and allergies. | |
| | Emergency and First Aid Procedures | <u>Inhalation:</u> |
| <u>Skin Contact:</u> | | Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. GET MEDICAL ATTENTION IMMEDIATELY. |
| <u>Eye Contact:</u> | | Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve manimum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY. |
| <u>Ingestion:</u> | | Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY. |

Section 7 - Precautions for Safe Handling and Use

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| Spill or Release Data | Flush spill area with water, if appropriate. Wear appropriate personal protective equipment recommended in Section 8 of MSDS. Liquid material may be removed with a vacuum truck. Wet material is slippery under foot. Shovel dried residue into suitable container. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies. |
| | Waste Disposal Method |
| | Reuse or reprocess if possible. Dispose in accordance with all applicable regulations. |
| | Handling and Storage |
| Handling and Storage | Store and handle in accordance with all current regulations and standards. |
| | Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances (See Section 5) |
| | Do not get in eyes, on skin, or on clothing. Avoid breathing aerosol mist. Wash thoroughly after handling. Use care when handling how material. |
| | Other Precautions |
| | N/A |

Section 8 - Control Measures

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| Respiratory Protection | A NIOSH approved respirator with N95 (dust, fume, mist) filters may be permissible under certain circumstances where dust or mist is present or symptoms have been observed that are indicative of overexposure. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator. |
| | Protective Gloves |
| | Wear appropriate chemical resistant gloves. |
| | Eye Protection |
| Other Protective Equip. | Wear safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. |
| | Wear protective clothing to minimize skin contact. Wear appropriate heat resistant clothing when potential exists for contact with liquids above 120F. |
| | Ventilation |
| Work/Hygienic Practices | Provide local exhaust ventilation where dust or mist may be generated. |
| | N/A |

To the best of our knowledge, the information contained above is accurate. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained above.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described above, we cannot guarantee that these are the only hazards that exist.

Prepared: October 2006