

SAFETY DATA SHEET

R3mediate
Page 1 of 4

SECTION 1: IDENTIFICATION

Product Identity: R3mediate
Recommended Use:
Company Name:
Address:
City and State:
Company Phone:
Emergency Phone:
New SDS Date: May 20, 2019

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Classification: Acute health hazard.
Signal Word: **WARNING**
Hazard Statements: May cause severe irritation and may cause tissue destruction if not promptly treated. Skin contact causes irritation. Causes serious eye irritation. Mists may cause severe irritation to upper respiratory tract. May be harmful if swallowed. May be severely irritating to the mucous membranes of the mouth, throat, esophagus and stomach, depending upon quantity ingested.

Pictogram:



Precautionary Statements: Wear suitable protective clothing, gloves and eye protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. Wash skin and contaminated clothing thoroughly after handling.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS#	Weight %
Sodium Silicate	1344-09-8	20 - 25

The specific chemical identity and/or exact percentage (concentration) of composition have been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

Eye Contact: In case of eye contact, wash eyes immediately and continuously for 15 minutes, holding lids apart to ensure flushing of entire area. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for 15 minutes while removing contaminated clothing. Prompt medical consultation is essential. Wash contaminated clothing before reuse. Destroy contaminated shoes.

Inhalation: Remove to fresh air if effects occur. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical consultation.

Swallowing: Do not induce vomiting. Never give anything by mouth to an unconscious person. Give large amounts of water. Seek medical attention immediately.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Use media appropriate for surrounding fire.

Fire and Explosion Hazards: Negligible fire hazard.

Special Fire Fighting Equipment and Procedures: Wear special chemical protective clothing. Use NIOSH approved positive-pressure self-contained breathing apparatus. Avoid contact with skin. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear chemical goggles or full-face shield, gloves and full protective clothing.

Emergency Procedures: Keep from entering storm sewers and ditches, which lead to waterways. Inform the responsible authorities in case of entry into waterways.

Methods and Materials for Containment: Stop leak at source. Dike and contain if possible.

Cleanup Procedures: Spills should be contained and cleaned up immediately. Wet material is slippery under foot. Recover as much as possible for reuse. Absorb remainder with inert material and place into closed container and store in a safe location to await disposal. Only trained and properly protected personnel should be involved in spill cleanup operations.

SECTION 7: HANDLING AND STORAGE

Safe Handling: Use with adequate ventilation. Do not get in eyes, on skin or clothing. Wear chemical goggles or full-face shield. Use protective gloves, apron and footwear impervious to this material. Remove contaminated clothing immediately. Wash skin area with soap and water, and launder clothing before reuse.

Safe Storage: Keep container tightly closed and upright when not in use. Wear full protective clothing, gloves and eye protection when opening or handling. Do not breathe mists. Do not store in aluminum containers as flammable hydrogen gas can be generated. Do not use aluminum fittings or transfer lines. When empty, drain completely and replace bungs securely.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Material	CAS#	OSHA PEL	ACGIH TLV
Sodium Silicate	1344-09-8	None Known	None Known

Appropriate Engineering Controls: Good general ventilation sufficient for most operations. Local exhaust if misty conditions prevail. If respiratory irritation is experienced, use an approved air-purifying respirator.

Personal Protective Measures: Wear gloves, apron and footwear impervious to this material. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Use chemical goggles. Full-face shield in addition to goggles may be desirable to protect face.

Special Requirements: Provide readily accessible eye wash stations and safety showers. Wash at end of each work shift. Promptly remove clothing that becomes contaminated. Launder or discard contaminated clothing.

SAFETY DATA SHEET

R3mediate
Page 3 of 4

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, light yellow
Odor:	Slight Odor
Odor Threshold:	Not Available
pH:	11.0 – 11.4 approximately
Melting Point/Freezing Point:	30F
Initial Boiling Point and Boiling Range:	214 – 216F
Flash Point:	Not Available
Evaporation Rate:	Not Available
Flammability:	Non-Combustible
Upper/Lower Flammability or Explosive Limits:	Not Available
Vapor Pressure:	Not Available
Vapor Density:	Not Available
Relative Density (Specific Gravity):	1.2
Solubility:	Complete
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity:	Not Available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Prolonged storage above 140F. Contact with acids will cause gelling and evolution of heat.

Materials to Avoid: Acids. Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

Hazardous Decomposition Products: None known.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure: Eye and skin contact, inhalation, ingestion.

Description and Symptoms of Effects: **Acute**— May cause eye irritation, that if untreated can be severe. May cause slight skin and respiratory irritation. Ingestion may cause irritation and burns from the mouth to the stomach. Exposure to alkaline solutions may result in irritation to severe burns depending on the concentration and duration of exposure.

Subchronic/Conditions Aggravated—None Known

Chronic—This material has no carcinogens listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or found to be a potential carcinogen by the Occupational Safety and Health Administration.

Numerical Measures of Toxicity: Oral: LD50 (rat) 1153 mg/kg (Sodium Silicate)
Dermal: LD50 (rabbit) 4640 mg/kg (Sodium Silicate)

SAFETY DATA SHEET

R3mediate
Page 4 of 4

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity Data: Sodium Silicate Fish: LC50 (96hr.) (Western Mosquitofish) 1800 mg/L
Invertebrates: EC50 (48 hr.) (Water Flea) 0.28 – 0.57 mg/L

Degradability: This product is completely biodegradable.

Accumulation: This product does not bioaccumulate.

Mobility in Soil: Mobility of this product has not been determined.

Other Adverse Effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Reuse or reprocess if possible. Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health, safety and environmental regulations. If in doubt, contact the appropriate agencies.

SECTION 14: TRANSPORT INFORMATION

UN Number:	Not applicable
UN Proper Shipping Name:	Water clarifying, purifying or softening compound
Transport Hazard Class:	Non hazardous
Packing Group:	Not applicable
D.O.T. Reportable Quantity:	None
Hazardous Substances:	Not regulated
Transport Label:	Not regulated

SECTION 15: REGULATORY INFORMATION

Product classification under Sections 311 and 312 of SARA Title III
Sodium Silicate – Acute Health Hazard

NFPA HAZARD RATING: Health: 2
Fire: 0
Reactivity: 0

SECTION 16: OTHER INFORMATION

New SDS Date: May 20, 2019
Supersedes: All others

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, R3 Industrial Cleaning Service makes no representations as to its accuracy or sufficiency. Conditions of use are beyond R3 Industrial Cleaning Service control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.