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MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SHX
 MANUFACTURER: CERATECH Inc.
 1500 N. Beauregard St., Ste 320
 Alexandria, VA 22311
 INFORMATION CONTACT: 800-581-8397
 443-524-4412
 Fax: 443-524-4411
 (Monday-Friday, 8:00 a.m. – 5:00 p.m. EST)
 EMERGENCY CONTACT 24 HOURS: CHEMTREC 1-800-424-9300
 INTERNATIONAL: 1-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION! Light yellow liquid. May cause nose, throat or respiratory tract irritation. May cause mild eye and skin irritation.
 POTENTIAL HEALTH EFFECTS:
 EYE: May cause mild irritation. In addition, contact can cause redness, burning, stinging itching and edema.
 SKIN: Prolonged contact may cause irritation in sensitive individuals.
 INGESTION: Ingestion is not likely to be a significant route of exposure. May cause irritation, nausea, vomiting, diarrhea, and abdominal cramps, if swallowed.
 INHALATION: May cause upper respiratory tract irritation.
 CHRONIC EFFECTS /CARCINOGENICITY: The components of this product are not listed by OSHA, NTP or IARC.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS REGISTRY NO</u>	<u>PERCENTAGE (WT/WT)</u>
Organic salt solution	Mixture	30-70%
Inorganic salt solution	Mixture	30-70%

OSHA Regulatory Status: This material is not classified as hazardous under OSHA regulations. Some components of this product may be claimed as trade secret. The hazards of these ingredients, if any, are covered by this material safety data sheet.

SECTION 4: FIRST AID MEASURES

EYE: Quickly and gently blot or brush away chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed, while holding the eyelid(s) open. Seek medical attention immediately. Do not rub eyes.
 SKIN: Quickly and gently, blot or brush away excess chemical. Remove contaminated clothing, shoes and leather goods. Wash with lukewarm, gently flowing soap & water for at least 5 minutes. If irritation persists, repeat flushing. Seek medical attention immediately.
 INGESTION: Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. If irritation or discomfort occurs, obtain medical advice immediately.
 INHALATION: Move victim to fresh air. Seek medical attention if necessary. If breathing has stopped, give artificial respiration.

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SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:	Not flammable	Method: N/A
EXTINGUISHING MEDIA:	Not flammable	Method: N/A
FIRE & EXPLOSION HAZARDS:	Not flammable	Method: N/A
FIRE FIGHTING INSTRUCTIONS:	Not flammable	Method: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILLS:	Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
LARGE SPILLS:	Absorb with an inert material and put the spilled material in appropriate waste disposal containers. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Advise local authorities that none of the affected water should be used in irrigation or for the abstraction of potable water until natural dilution returns the boron level to its normal environmental background.
CONTAINMENT:	For large spills, prevent release to sewers or waterways.
CLEANUP:	Residual amounts of material can be flushed with large amounts of water.

SECTION 7: HANDLING AND STORAGE

HANDLING:	Keep in tightly closed containers. Protect containers from physical damage. Avoid direct skin contact with the material. Prevent contact with eyes.
STORAGE:	Store in a cool, dry, and well-ventilated location. Do not store near incompatible materials. (See Section 10 for list of incompatible materials.) Keep away from moisture.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	Provide sufficient ventilation to control airborne concentrations of vapors below exposure limits.				
RESPIRATORY PROTECTION:	Use NIOSH/MSHA approved respirators if airborne concentration exceeds PEL.				
SKIN PROTECTION:	Use appropriate gloves to prevent skin contact. Clothing should fully cover arms and legs.				
EYE PROTECTION:	Eye and face protection requirements will vary dependent upon work environment and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally considered good practice to wear a minimum of safety glasses with side shields when working in industrial environments.				
EXPOSURE GUIDELINES:	<table> <tr> <td>OSHA PEL</td> <td>ACGIH TLV</td> </tr> <tr> <td>N/A</td> <td>N/A</td> </tr> </table>	OSHA PEL	ACGIH TLV	N/A	N/A
OSHA PEL	ACGIH TLV				
N/A	N/A				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Light yellow liquid
ODOR:	Odorless
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.15 - 1.30
pH	11.5 - 12.8

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SECTION 10: STABILITY AND REACTIVITY

STABILITY: Chemically stable
MATERIALS TO AVOID: Acids
CONDITIONS TO AVOID: None
HAZARDOUS DECOMPOSITION PRODUCTS: Heated to decomposition, emits fumes of sodium oxide.

SECTION 11: TOXICOLOGICAL INFORMATION

No LD50s or LC50 have been identified for this product's components.
CHRONIC EFFECTS / CARCINOGENICITY: The components of this product are not listed by OSHA, NTP or IARC. Follow the recommendations in Section 8 for personal protective equipment.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Not determined.
ENVIRONMENTAL FATE: Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable federal, state, and local environmental regulations. If this product is supplied, and unmixed, becomes a waste, it will not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act.

SECTION 14: TRANSPORT INFORMATION

US DOT Not Regulated

SECTION 15: REGULATORY INFORMATION

United States
All chemical ingredients are listed on the U.S. TSCA Inventory List.
HMIS: Health Risks 0, Flammability 0, Reactivity 0
NFPA: Health Hazard 0, Fire Hazard 0, Reactivity 0

SECTION 16: OTHER INFORMATION

MSDS Status: Original

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