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MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ERM
 MANUFACTURER: CERATECH Inc.
 1500 N. Beauregard St., Ste 320
 Alexandria, VA 22311
 INFORMATION CONTACT: 800-581-8397
 443-524-4410
 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! 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: Large quantities may cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock.
 INHALATION: Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract.
 CHRONIC EFFECTS: Prolonged or repeated skin contact may cause dermatitis. Effects may be delayed.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS REGISTRY NO</u>	<u>PERCENTAGE (WT/WT)</u>
Proprietary	Proprietary	5 - 30%
Sodium hydroxide	1310-73-2	0 - 3 %
Water	7789-20-0	70-95%

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.

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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. Flush contaminated area with lukewarm, gently flowing water for at least 5 minutes. If irritation persists, repeat flushing. Seek medical attention if irritation persists.

INGESTION: Products containing sodium hydroxide are not intended for 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: Not a likely route of exposure.

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

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.

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 mist concentrations 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: OSHA PEL ACGIH TLV
N/A N/A

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear liquid
ODOR:	Odorless
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.08 - 1.14
pH	11.5 - 13.0

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at room temperature in closed containers under normal storage and handling conditions.
CONDITIONS TO AVOID:	Contact with acids
INCOMPATIBILITIES WITH OTHER MATERIALS:	Acids
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic fumes of sodium oxide
HAZARDOUS POLYMERIZATION:	Will not occur

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

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SECTION 15: REGULATORY INFORMATION

United States

All chemical ingredients are listed on the U.S. TSCA Inventory List.

SECTION 16: OTHER INFORMATION

HMIS: Health Risks 1, Flammability 0, Reactivity 0

NFPA: Health Hazard 0, Fire Hazard 0, Reactivity 0

MSDS Status: Original

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