

HAZTECH  
SYSTEMS,<sup>TM</sup>  
INC.

## Material Safety Data Sheet

PPE (See Section 15)



NFPA

HMIS

|               |   |
|---------------|---|
| Health Hazard | 3 |
| Fire Hazard   | 0 |
| Reactivity    | 0 |



## Section 1. Chemical Product and Company Identification

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|                 |   |        |   |
|-----------------|---|--------|---|
| Trade Name      | <b>Sulfate Test</b>                                       | Part # | RE2063  |
| Manufacturer    | HazTech Systems, Inc.<br>PO Box 929<br>Mariposa, CA 95338 | CAS #  | 10326-27-9  |
| Commercial Name |   | RTECS  | CQ8750000   |
| Synonyms        | Barium chloride dihydrate in water                        | TSCA   | TSCA 8(b) inventory:<br>Barium chloride dihydrate |
|                 |   | CI #   |   |

In case of emergency contact CHEMTREC  
(24 hours) at 800-424-9300

HazTech Systems, Inc. 800-543-5487

Spectrum Chemical Mfg. Corp. 310-516-8000

|                  |   |
|------------------|---|
| Chemical Formula | BaCl <sub>2</sub> .2H <sub>2</sub> O, H <sub>2</sub> O                      |
| Supplier         | Spectrum Chemical Mfg. Corp.<br>14422 S. San Pedro St.<br>Gardena, CA 90248 |

## Section 2. Composition and Information on Ingredients

## Exposure Limits

| Name                               | CAS #      | TWA (mg/m <sup>3</sup> ) | STEL | CEIL (mg/m <sup>3</sup> ) | % by Weight |
|------------------------------------|------------|--------------------------|------|---------------------------|-------------|
| Barium chloride dihydrate<br>Water | 10326-27-9 | 0.5                      |      |                           | >93%<br><7% |

|                                   |  |
|-----------------------------------|--|
| Toxicological Data on Ingredients | Barium chloride dihydrate:<br>ORAL (LD50): Acute: 76 mg/kg (Guinea pig). 118 mg/kg (Rat). 300 mg/kg (Rat). |
|-----------------------------------|--|

## Section 3. Hazards Identification

|                                  |   |
|----------------------------------|---|
| Potential Acute Health Effects   | Extremely hazardous in case of ingestion. Very hazardous in case of inhalation. Hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death.  |
| Potential Chronic Health Effects | CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.<br>TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.<br>The substance is toxic to kidneys, lungs, the nervous system, mucous membranes.<br>Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs. |

**Section 4. First Aid Measures**

|              |  |
|--------------|--|
| Eye Contact  | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.   |
| Skin Contact | In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. |
| Inhalation   | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.   |
| Ingestion    | If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.                        |

**Section 5. Fire and Explosion Data**

|   |   |
|---|---|
| Flammability  | Non-flammable.  |
| Auto-Ignition Temperature                           | Not applicable.   |
| Flash Point   | Not applicable.   |
| Flammable Limits                                    | Not applicable.   |
| Products of Combustion                              | Not applicable.   |
| Fire Hazards in Presence of Various Substances      | Not applicable.   |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available.<br>Risks of explosion of the product in presence of static discharge: Not available. |
| Fire Fighting Media and Instructions                | Not applicable.   |
| Special Remarks on Fire Hazards                     | Not applicable.   |

**Section 6. Accidental Release Measures**

|             |  |
|-------------|--|
| Small Spill | Use appropriate tools to put the spilled solid in a convenient waste disposal container. |
|-------------|--|

**Section 7. Handling and Storage**

|             |  |
|-------------|--|
| Precautions | If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes |
| Storage     | Keep in HazCat Kit.  |

**Section 8. Exposure Controls/Personal Protection**

|                      |                                |
|----------------------|--------------------------------|
| Engineering Controls | Use in a well ventilated area. |
| Personal Protection  | Gloves and goggles.            |



### Section 9. Physical and Chemical Properties

|                               |               |                        |                        |
|-------------------------------|---------------|------------------------|------------------------|
| Physical State and Appearance | Liquid        | Volatility             | Not available          |
| Molecular Weight              | Not available | Odor Threshold         | Not available          |
| pH (1% Solution in Water)     | Not available | Water/Oil Dist. Coeff. | Not available          |
| Boiling Point                 | Not available | Ionicity (in Water)    | Not available          |
| Melting Point                 | Not available | Dispersion Properties  | Not available          |
| Critical Temperature          | Not available | Solubility             | Soluble in cold water. |
| Specific Gravity              | Not available | Odor                   | Not available          |
| Vapor Pressure                | Not available | Taste                  | Not available          |
| Vapor Density                 | Not available | Color                  | Colorless              |

### Section 10. Stability and Reactivity Data

|   |                    |                                |                                     |
|---|--------------------|--------------------------------|-------------------------------------|
| Stability                               | Product is stable. | Corrosivity                    | Non-corrosive in presence of glass. |
| Instability Temperature                 | Not available.     | Special Remarks on Corrosivity | Not available.                      |
| Conditions of Instability               | Not available.     | Polymerization                 | Will not polymerize.                |
| Incompatibility with Various Substances | Not available.     |                                |                                     |

### Section 11. Toxicological Information

|  |   |
|--|---|
| Route of Entry                                   | Eye contact. Inhalation. Ingestion.   |
| Toxicity to Animals                              | Barium chloride: Acute oral toxicity (LD50): 76 mg/kg (Guinea pig).   |
| Chronic Effects on Humans                        | Causes damage to the following organs: kidneys, lungs, the nervous system, mucous membranes.  |
| Other Toxic Effects on Humans                    | Extremely hazardous in case of ingestion. Very hazardous in case of inhalation. Hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (permeator). |
| Special Remarks on Toxicity to Animals           | Not available.  |
| Special Remarks on Chronic Effects on Humans     | Excreted in maternal milk in animal. Passes through the placental barrier in human.   |
| Special Remarks on Other Toxic Effects on Humans | Not available.  |

### Section 12. Ecological Information

|   |   |
|---|---|
| Ecotoxicity                                       | Not available.  |
| BOD5 and COD                                      | Not available.  |
| Products of Biodegradation                        | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. |
| Toxicity of the Products of Biodegradation        | The products of degradation are more toxic.   |
| Special Remarks on the Products of Biodegradation | Not available.  |

