HAZTE SYSTE INC	MS, <sup>™</sup> NFPA HMIS	a Sheet	PPE (See Section 15)
Section 1. Cher	mical Product and Company Identification		Page 1 of 4
Trade Name	Sulfate Test	Part #	RE2063
Manufacturer	HazTech Systems, Inc.	CAS #	10326-27-9
	PO Box 929	RTECS	CQ8750000
Commercial Name	Mariposa, CA 95338	TSCA	TSCA 8(b) inventory: Barium chloride dihydrate
Synonyms	Barium chloride dihydrate in water	CI #	
		(24 hours)	emergency contact CHEMTREC at 800-424-9300 Systems, Inc. 800-543-5487
Chemical Formula	BaCl2.2H20, H2O		Chemical Mfg. Corp. 310-516-8000
Supplier	Spectrum Chemical Mfg. Corp. 14422 S. San Pedro St. Gardena, CA 90248		0 I

# Section 2. Composition and Information on Ingredients

Exposure Limits					
Name	CAS #	TWA (mg/m3)	STEL C	EIL (mg/m3) % by	Weight
Barium chloride dihydrate Water	10326-27-	9 0.5		>93	<7% %

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

#### 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. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, lungs, the nervous system, mucous membranes. 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.

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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

I I I I I I I I I I I I I I I I I I I	
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. 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 Keej	p in HazCat Kit.		
Section 8. Expos	sure Controls/Personal Protection		
Engineering Controls	Use in a well ventilated area.		
Personal Protection	Gloves and goggles.		

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Section 9. Physical and C	hemical Properties				
Physical State and Appearance	Liquid		Volatili	ty	Not available
Molecular Weight	Not available		Odor T	hreshold	Not available
pH (1% Solution in Water)	Not available		Water/0	Dil Dist. Coeff.	Not available
Boiling Point	Not available		Ionicity	(in Water)	Not available
Melting Point	Not available		Dispers	ion Properties	Not available
Critical Temperature	Not available		Solubili	ty	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	d Reactivity Data				
Stability	Product is stable.			Corrosivity	Non-corrosive in presence of glass.
Instability Temperature	Not available.			Special Remark on Corrosivity	s Not available.
Conditions of Instability	Not available.			Polymerization	Will not polymerize.
Incompatibility with Various Substances	Not available.			i orymenzation	win not polymenze.
Section 11. Toxicological	Information				
Route of Entry		Eye contact. In	halation.	Ingestion.	
Toxicity to Animals		Barium chlorid	le: Acute o	oral toxicity (LD5	50): 76 mg/kg (Guinea pig).
Chronic Effects on Humans				llowing organs: k	idneys, lungs, the nervous system,
Other Toxic Effects on Humans		mucous membranes. 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			
Special Remarks on Toxicity to Animals Special Remarks on Chronic Effects on Humans Special Remarks on Other Toxic Effects on Humans		contact (permeator). Not available. Excreted in maternal milk in animal. Passes through the placental barrier in hum Not available.			
Section 12. Ecological Inf	ormation				
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	Not available.				



## Sulfate Test

Section 13. Disposal Consid	erations		
Waste Disposal	Recycle to process, if possible. Consult your local or regional authorities.		
Section 14. Transport Information			
DOT Classification Not a DO	Not a DOT controlled material.		
Identification Non-regulated.			
Special Provisions for Transport			
Section 15. Other Regulator	y Information and Pictograms		
Federal and State Regulations	Pennsylvania RTK: Barium chloride dihydrate Massachusetts RTK: Barium chloride dihydrate TSCA 8(b) inventory: Barium chloride dihydrate		
California Proposition 65 Warnings			
Other Regulation	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).		
Other classifications	WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).		
	DSCL (EEC) R25- Toxic if swallowed. R36/38- Irritating to eyes and skin.		
Section 16. Other Informati	on		
Part Number(s)	RE2063		
References	Not available.		
Other Special Considerations	Not available.		

Validated by R. Turkington

Verified by R. Turkington

Call 1-800-543-5487

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, HazTech Systems, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.