



March 2005

Material Safety Data Sheet



HMIS	
Health Hazard	2
Fire Hazard	0
Reactivity	0



PPE (See Section 15)

Section 1. Chemical Product and Company Identification

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Trade Name	Sugar Test 1 (<i>Meth Kit Ephedrine Test 2</i>)	Part #	RE2061, RE2077
Manufacturer	HazTech Systems, Inc. PO Box 929 Mariposa, CA 95338	CAS #	7758-99-8
Chemical Name	Cupric sulfate pentahydrate	RTECS	GL8900000
Synonyms	Blue vitriol	TSCA	TSCA 8(b) inventory: Copper sulfate pentahydrate
Chemical Formula	CuSO4.5H2O	CI #	
Supplier	Spectrum Chemical Mfg. Corp. 14422 S. San Pedro St. Gardena, CA 90248		

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

Section 2. Composition and Information on Ingredients

Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m3)	STEL	CEIL (mg/m3)	
Copper sulfate pentahydrate	7758-99-8	1			100%

Toxicological Data on Ingredients
Copper sulfate pentahydrate:
ORAL (LD50): Acute: 300 mg/kg (Rat).

Section 3. Hazards Identification

Potential Acute Health Effects: Very hazardous in case of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (sensitizer). Inflammation of the eye is characterized by redness, watering, and itching.

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, the nervous system. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

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. 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. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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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	Crystalline granules solid	Volatility	Not available
Molecular Weight	249.69 g/mole	Odor Threshold	Not available
pH (1% Solution in Water)	7 (Neutral)	Water/Oil Dist. Coeff.	Not available
Boiling Point	150°C (302°F)	Ionicity (in Water)	Not available
Melting Point	652.78°C (1207°F)	Dispersion Properties	Not available
Critical Temperature	Not available	Solubility	Easily soluble in water. Partially soluble in methanol.
Specific Gravity	2.28 (Water = 1)	Odor	Odorless
Vapor Pressure	Not available	Taste	Nauseous metallic.
Vapor Density	Not available	Color	Blue

Section 10. Stability and Reactivity Data

Stability	Product is stable.	Corrosivity	Highly corrosive in presence of steel.
Instability Temperature	Not available.	Special Remarks	Hygroscopic; keep container tightly closed.
Conditions of Instability	Not available.	Polymerization	Will not polymerize.
Incompatibility with Various Substances	Reactive with alkalis.		

Section 11. Toxicological Information

Route of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 300 mg/kg (Rat).
Chronic Effects on Humans	The substance is toxic to kidneys, the nervous system.
Other Toxic Effects on Humans	Very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (sensitizer).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May cause jaundice and liver enlargement.
Special Remarks on Other Toxic Effects on Humans	Material is irritating to mucous membranes and upper respiratory tract.

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.

Section 13. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification Not a DOT controlled material.

Identification Non-regulated.

Special Provisions
for Transport

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Copper sulfate pentahydrate
 Massachusetts RTK: Copper sulfate pentahydrate
 TSCA 8(b) inventory: Copper sulfate pentahydrate
 CERCLA: Hazardous substances.: Copper sulfate pentahydrate

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).
 CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC) R38- Irritating to skin.
 R41- Risk of serious damage to eyes.

Section 16. Other Information

Part Number(s) RE2061

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.