

I Identification

Product Name: **Cupric Sulfate, Pentahydrate**

Catalog Number: **C009**

Synonyms: **Cobaltous Chloride Hexahydrate; Cobalt(II) chloride hexahydrate**

Company: **Caisson Laboratories**

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Emergency Contact: **CHEMTREC 800.424.9300 (703.527.3887)**

Recommended Use: **For research and laboratory use only.**

Restrictions On Use: **This product is intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.**

II Hazard(s) Identification

Overview:

Flammability:

Reactivity: **No data available**

Toxicity:

NFPA Rating


Health: **0**

Flammability: **0**

Reactivity: **0**

Special:

Pictograms:



III Composition / Information on Ingredients

General Information:

Component:

CAS#: **7758-99-8**

% by Weight:

IV First-Aid Measures

General Information: **Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.**

Route of Exposure

Oral: **If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.**

Inhalation: **Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.**

Dermal: **Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.**

Eye: **In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention.**

V Fire-Fighting Measures

General Information:

Flammable Properties

General:

Flash Point: **No data available**

Ignition Temperature: **No data available**

Suitable Extinguishing Media: **Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**

Special Protective Equipment for fire fighters: **Use protective clothing and breathing equipment appropriate for the surrounding fire.**

Additional Information: **When heated above 110 °C (230 °F) material will melt. Avoid using a direct water stream on molten material as it may cause splattering.**

VI Accidental Release Measures

General Information:

VII Handling and Storage

Handling: **Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.**

Storage: **Keep in a tightly closed container, stored in a cool, dry, ventilated area.**

VIII Exposure Controls / Personal Protection

General Information:

Engineering Measures: **Handle in accordance to general industrial hygiene and safety practice.**

Personal Protective Equipment

General:

Eye Protection: **Wear chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.**

Hand Protection: **Wear protective gloves.**

Respiratory Protection: **For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**

Skin and Body Protection: **Wear lab coat, gown, or coveralls to protect from exposure.**

Hygiene Measures:

IX Physical and Chemical Properties

General Information:

Appearance: **Transparent blue crystals or powder.**

pH:

Specific Gravity: **No data available**

Melting Point: **> 110 °C (> 230 °F)**

Boiling Point: **No data available**

Flash Point: **No data available**

Flammability Range: **No data available**

Vapor Pressure: **9.7 hPa (7.3 mmHg) at 25 °C (77 °F)**

X Stability and Reactivity

General Information:

Storage Stability

Temperature: **15 to 30 degrees C**

Light Sensitive: **True**

Incompatibles: **Substance will ignite hydroxylamine. Solutions are acidic and can react with magnesium to evolve flammable hydrogen gas. May react with acetylene to form dangerous acetylides.**

Hazardous Decomposition Products: **Sulfur oxides, Copper oxides**

XI	Toxicological Information
<p>General Information:</p> <p>Acute Toxicity: LD₅₀, Oral - Rat: 482 mg/kg</p> <p>LD₅₀, Dermal - Rat: > 2,000 mg/kg</p> <p>Chronic Toxicity:</p> <p>Local Effects:</p> <p>Target Organs: Stomach</p> <p>Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA Permissible Exposure Limits: 1 mg/m³</p>	
XII	Ecological Information
<p>General Information:</p>	
XIII	Disposal Considerations
<p>General Information:</p> <p>Disposal of Product: Dispose in accordance with all applicable federal, state, and local environmental regulations.</p> <p>Disposal of Packaging: Dispose of as unused product.</p>	
XIV	Transport Information
<p>Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. (Copper sulphate pentahydrate)</p> <p>UN#: 3077</p> <p>Class: 9</p> <p>Packaging Group: III</p> <p>Hazard Label: Misc. Hazardous Material</p>	
XV	Regulatory Information
<p>General Information:</p> <p>TSCA:</p> <p>SARA 313:</p>	
XVI	Other Information
<p>General Information: All chemicals may pose unknown hazards and should be used with caution. 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 SDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.</p>	

Last Revision Date: 18 Oct, 2018