

MATERIAL SAFETY DATA SHEET

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Material Name: CS 2005

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Section 1 – PRODUCT IDENTIFICATION

Product Name: CS 2005

EPA No.: 66675-3

Section 2 – HAZARDOUS INGREDIENTS

Components	CAS #	OSHA PEL	ACGIH TLV	%
Copper Sulfate Pentahydrate	7758-99-8	1mg/m3	1mg/m3	18.81 – 20.79 %

Section 3 – HEALTH HAZARDS IDENTIFICATION

Primary Routes of Entry: *Inhalation, Absorption, and Ingestion.*

Eyes: *Corrosive.* Exposure may cause severe burns, destruction of eye tissue and permanent injury or blindness.

Skin: *Corrosive.* Contact may cause reddening, itching, inflammation, burns, blistering and possible tissue damage.

Ingestion: *Corrosive.* May cause painful irritation and burning of the mouth and throat, painful swallowing, labored breathing, burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection.

Inhalation: *Irritating.* Overexposure may cause burns and tissue damage.

Section 4 – FIRST AID MEASURES

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eyes: Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes and then continue rinsing. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to do so. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

Inhalation: Move a person to fresh air. If person is not breathing, call 91 or an ambulance and then give artificial respirations, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Section 5 – FIRE AND EXPLOSION HAZARDS

Flash Point: N/E

UFL: N/E

LFL: N/E

General Fire Hazards: Water applied directly could result in spattering of acid solution.

Hazardous Combustion Products: May react with high carbon metals to produce hydrogen gas, which can form an explosive mixture.

Fire Fighting Equipment/Instructions: Firefighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

NFPA Ratings:

Fire: 0

Health: 2

Reactivity: 1

Other: X

HMIS III Ratings:

Fire: 0

Health: 2

Reactivity: 1

Personal Protection: X

Section 6 – ACCIDENTAL RELEASE MEASURES

Containment Procedures: Flush with water into retaining area or container. Caution should be exercised regarding personal safety and exposure to released product.

Clean-Up Procedures: Neutralize solution with bicarbonate of soda.

Evacuation Procedures: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind.

Special Instructions: Notify local authorities and National Response Center, if required.

Section 7 – HANDLING and STORAGE

Procedures for Handling: Avoid contact with strong oxidizers. Do not use with materials or equipment sensitive to corrosive solutions.

Recommended Storage Methods: Avoid storage in excessive heat, expansion of container may occur creating spillage. Do not store in galvanized or nylon equipment.

Section 8 – PERSONAL PROTECTION

Respiratory Protection: Ventilation and other forms of engineering controls are the preferred means for controlling exposures. AMSHA/NIOSH approved air-purifying respirator with an appropriate acid gas cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protective Gloves: Use appropriate chemical gloves that are in usable order.

Other Protective Clothing or Equipment: Eye and face protection is necessary, long sleeved shirts, long pants, socks plus shoes.

Work/Hygienic Practices: Use good personal hygiene. Body shower for prolonged skin contact.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Bluish liquid

Physical State: Liquid

pH: 2.05

Vapor Pressure: 0.1 mm 68°F

Boiling Point: 220° F

Odor: Minimal Odor

Vapor Density: (Air=1): 1.0

Evaporation Rate: N/A

Solubility in Water: Complete

Specific Gravity: (H₂O=1): 1.18

Section 10 – REACTIVITY INFORMATION

Chemical Stability: Stable.

Conditions to Avoid: Avoid mixing with strong bases and strong reducing agents.

Incompatibility: Incompatible with strong bases and strong reducing agents.

Hazardous Decomposition Products: Sulfur dioxide and sulfur trioxide may be produced with decomposition.

Hazardous Polymerization: Will not occur.

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity/ Chronic Toxicity: Continued overexposure to this solution may cause systemic toxicity.

Carcinogenicity: N/A

Signs and Symptoms of Exposure: Overexposure may cause the following specific symptoms, depending on concentration and duration of exposure: vomiting, shallow respiration and lung function changes.

Section 12 – DISPOSAL CONSIDERATIONS

Disposal Instructions: Neutralize with Bicarbonate of soda or fertilizer grade lime and dispose of in accordance with all federal, state and local regulations.

Section 13 – TRANSPORTATION INFORMATION

DOT Information

Proper Shipping Name: Corrosive liquid, acidic, inorganic, n.o.s., (contains cupric sulfate)

Hazard Class: 8

UN/NA #: UN3264

Packing Group: III

- Packages that contain more than 5.1 U.S. gallons are **RQ** (reportable quantity)
- Packages that contain more than 4.0 liter could be **ORM-D**
- The proper shipping information is the responsibility of the shipper and this information is only guidelines.

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