

Humco Holding Group, Inc.
7400 Alumax Drive
Texarkana, TX 75501
800-662-3435

Item#0395-0659

Copper Sulfate

Date Prepared: 08/14/2007

SECTION 1 PRODUCT IDENTIFICATION

Product: Copper Sulfate Granular Crystals

General or Generic ID: Salts

Emergency Telephone Numbers:

Humco Holding Group, Inc. 800-662-3435

Chemtec 800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS No.</u>	<u>PERCENT (by weight)</u>
Copper Sulfate	7758-98-7	100.0

SECTION 3 HAZARDOUS IDENTIFICATION

Potential Health Effects

Eye: May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin: May cause mild skin irritation. Symptoms may include redness and burning of skin.

Swallowing: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation: This material is a dust or may produce dust. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Exposure to freshly formed fumes from heated metal may cause "metal fume fever". This illness comes on a few hours after exposure. It is characterized by chills, fever, and other flu-like symptoms including nausea, coughing, and congestion. This illness is temporary and tends to be more severe on the first day of the workweek.

Symptoms of Exposure: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea).

Target Organ Effects: No data.

Developmental Information: No data.

Cancer Information: No data.

Other Health Effects: No data.

NFPA Rating: Not determined

Primary Route(s) of Entry: Inhalation, skin contact.

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SECTION 4

FIRST AID MEASURES

Inhalation: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Ingestion: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Skin Contact: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Wash clothing before reuse.

Eye Contact: If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with plenty of fresh water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician: Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this materials: Lung (for example, asthma-like conditions.)

SECTION 5

FIRE FIGHTING MEASURES

Flash Point: NA

Explosive Limit: NA

Autoignition Temperature: No data.

Hazardous Products of Combustion: May form sulfur compounds.

Fire & Explosion Hazards: No special fire hazards are known to be associated with this product.

Extinguishing Media: Water fog.

Fire Fighting Instructions: Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Small Spill: Sweep up material for disposal or recovery.

Large Spill: Shovel material into containers. Thoroughly sweep area of spill to clean up any residual material.

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SECTION 7

HANDLING & STORAGE

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

SECTION 8

CONTROL MEASURES

Skin Protection: Wear resistant gloves such as: neoprene, wear normal work clothing covering arms and legs.

Eye Protection: Wear safety glasses in compliance with OSHA regulations. (Consult your safety representative.)

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls: Provide sufficient mechanical (General and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines:

Component

Copper Sulfate (7758-98-7)

No exposure limits established

SECTION 9

PHYSICAL & CHEMICAL PROPERTIES

Appearance: No data.

Color: Blue

Odor: No data.

Specific Gravity (H₂O=1): 2.284 @ 77°F

Liquid Density: NA

pH: NA

% Volatiles: No data.

Boiling Point: NA

Vapor Pressure (mm Hg): NA

Physical Form: Crystals

Evaporation Rate: NA

Specific Vapor Density: NA

State: Solid

SECTION 10

STABILITY & REACTIVITY

Chemical Stability: Stable.

Hazardous Decomposition: May form sulfur compounds.

Hazardous Polymerization: Product will not undergo hazardous polymerization.

Incompatibility (materials to avoid): No data.

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SECTION 11 TOXICOLGICAL INFORMATION

No data

SECTION 12 ECOLOGICAL INFORMATION

No data

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Management Information: Deposit in a landfill in accordance with local, state and federal regulations.

SECTION 14 TRANSPORT INFORMATION

D.O.T. Information: 49 CFR 172.101

DOT Description: Environmentally Hazardous Substances, Solid, N.O.S., 9, UN 3077, III

Container Mode: 55 Gal Drum/Truck Package

NOS Component: Copper Sulfate

RQ (Reportable Quantity) – 49 CFR 172.101

<u>Product Quantity (lbs)</u>	<u>Component</u>
10	Cupric Sulfate

SECTION 15 REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status: TSCA (United States) The international ingredients of this product are listed.

CERCLA RQ (Reportable Quantity) – 40 CFR 302.4 (a)

<u>Component</u>	<u>RQ (lbs)</u>
Cupric Sulfate	10

SARA 302 Components – 40 CFR 355 Appendix A: None

Section 311/312 Hazard Class – 40 CFR 370.2: Immediate

SARA 313 Components – 40 CFR 372.65: None

International Regulations

Inventory Status: Not determined.

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State & Local Regulations

California Proposition 65: None

New Jersey RTK Label Information: Cupric Sulfate 7758-98-7

Pennsylvania RTK Label Information: Sulfuric Acid Copper (2+) Salt (1:1) 7758-98-7

SECTION 16

OTHER INFORMATION

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.