

MATERIAL SAFETY DATA SHEET

MANUFACTURED FOR: K & K Chemical Co.
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ADDRESS: 1303 Industrial Drive, Royse City, TX 75189

PRODUCT: COPPER SULFATE CRYSTALS
PART NUMBER(S): S-703
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Revision Date: April 2, 2010

SECTION I - GENERAL

Chemical Name & Synonym: Copper Sulfate Pentahydrate
Trade Name & Synonyms: COPPER SULFATE CRYSTALS, Blue Copper, Blue Stone, Blue Vitriol, Cupric Sulfate
Chemical Family: Inorganic salt, solid
DOT Basic Description: Environmentally hazardous substance, solid, n.o.s.(CUPRIC SULFATE), 9, UN3077, III
Formula: $CuSO_4 \cdot 5H_2O$

SECTION II - HAZARDOUS INGREDIENTS

Copper (II) Sulfate Pentahydrate CAS No. 7758-99-8

SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point (°C): Not Applicable
Vapor Pressure (mm Hg @ 20°C): Not Applicable
Vapor Density (Air = 1): Not Applicable
Specific Gravity (H₂O = 1): 2.28
% Volatile by Volume: Not Applicable
Evaporation Rate (H₂O = 1): Not Applicable
Solubility in Water: 32 g / 100 cc
Appearance and Odor: Blue crystals or granules; odorless

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (%):
- LEL: Not Applicable
- UEL: Not Applicable
Flash Point (Method Used): Non-combustible
Extinguishing Media: Use any appropriate for surrounding fire.
Special Fire Fighting Procedures: Use full protective equipment and clothing
Unusual Fire & Explosion Hazards: Fire may produce irritating, corrosive and/or toxic fumes.

SECTION V - HEALTH HAZARD DATA

Route of Entry: Ingestion, inhalation, eye contact
Carcinogenic Assessment: Not listed
Threshold Limit Value: Not Applicable
Effects of Overexposure: May be fatal if swallowed. May cause irritation to the eyes, skin and respiratory tract.
Emergency & First Aid Procedures: Ingestion: Immediately give victim milk (4 to 8 oz). DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Contact a physician or poison control center immediately.
Skin and eyes: Flush with water for at least 20 minutes. Get medical attention if irritation persists.
Inhalation: Remove victim to fresh air. Get medical attention if irritation persists.

SECTION VI - REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Hydroxylamine, magnesium, alkalines, phosphates, nitromethane; acetylene, hydrazine and other reducing agents.
Hazardous Decomposition Products: Oxides of sulfur and copper
Hazardous Polymerization: Will not occur

SECTION VII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled: Stop flow of material. Wear protective gear. Sweep or scoop up and dispose of as hazardous waste (consult local authorities or EPA). Releases to the environment greater than 10 lb (RQ) must be reported to the EPA
Waste Disposal Method: Dispose of in accordance with all local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Dust mask recommended.
Ventilation: Normal ventilation is adequate
Protective Gloves: Latex or vinyl recommended
Eye Protection: Safety glasses recommended
Other Protective Equipment: Boots and coveralls as necessary to prevent skin contact.

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Store in original containers for up to one year. Keep closed when not in use. Protect from extreme heat.
Other Precautions: Marine pollutant. Toxic to fish and marine organisms. KEEP OUT OF REACH OF CHILDREN. Read and follow label directions. Do not contaminate water, food or feed by storage or disposal.
Emergency Response Guide No. 171