



SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **COPPER SULFATE CRYSTALS**
PRODUCT NUMBER: S-703
COMPANY: K & K Chemical
PHYSICAL ADDRESS: 1303 Industrial Drive, Royse City, Texas, 75189
MAILING ADDRESS: PO Box 1059, Royse City, Texas, 75189
COMPANY PHONE: 800-958-6921
WEB ADDRESS: KandKChemical.com
EMERGENCY PHONE: CHEMTREC (24/7), 800-424-9300 (USA)

SECTION 2. HAZARD(S) IDENTIFICATION

DANGER



HAZARD STATEMENTS:

Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear eye protection, face protection.
Wear protective gloves.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	SYNONYMS	CAS #	WT %
Copper (II) sulfate pentahydrate	Cupric sulfate Copper sulfate crystals	7758-99-8	>99

SECTION 4. FIRST AID MEASURES

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth with water. Do NOT induce vomiting. Call a POISON CENTER or doctor for treatment advice.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

SECTION 5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Appropriate for surrounding media.

SPECIFIC HAZARDS: Product is not combustible, but may decompose in the heat of a fire to produce corrosive and/or toxic fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust. Avoid all skin contact with spilled product. Remove soiled clothing and launder before re-use.

CONTAINMENT AND CLEAN-UP: Sweep up and shovel into suitable closed containers for disposal. Discharge into the environment must be avoided.

SECTION 7. HANDLING AND STORAGE

Store indefinitely in original container. Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

MATERIAL	OSHA PEL	ACGIH TLV
Copper sulfate (dust)	1 mg/m ³ TWA	1 mg/m ³ TWA

APPROPRIATE ENGINEERING CONTROLS: None required
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blue crystals

ODOR: None

pH: 3.7 - 4.2 (10% solution)

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY: Hygroscopic

CHEMICAL STABILITY: Stable

HAZARDOUS REACTIONS: Contact with reducing agents can cause vigorous reaction, especially in solution.

CONDITIONS TO AVOID: Damp or wet storage conditions

INCOMPATIBLE MATERIALS: Strong bases (alkalis), magnesium, phosphates, acetylene, hydroxylamine

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxides, copper oxides

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTE(S) OF ENTRY: Eyes, skin, ingestion, inhalation (dust)

LISTED CARCINOGEN: No

MEDICAL CONDITION AGGRAVATED: Wilson's Disease

INHALATION: Product is a respiratory tract irritant, and inhalation may cause nose irritation, sore throat, coughing, and chest tightness and possibly, ulceration and perforation of the nasal septum.

INGESTION: Acute toxicity is largely due to the corrosive (acidic) properties of this product. Harmful or fatal if swallowed. LD50 = 330 mg/kg (oral, rat)

EYES: Irritant. May cause burns.

SKIN (DERMAL): Irritant. May cause burns.

Chronic overexposure to this product may cause liver and kidney damage, anemia and other blood cell abnormalities.

SECTION 12. ECOLOGICAL INFORMATION

Harmful to aquatic life in very low concentrations. Product is toxic to fish and other aquatic organisms when applied to stream, rivers, ponds or lakes.



SECTION 13. DISPOSAL CONSIDERATIONS

This product is a registered pesticide. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, spray mixtures or rinsate is a violation of U.S. Federal and Canadian law. If these wastes cannot be disposed of by use, according to label instruction, contact a hazardous waste representative.

SECTION 14. TRANSPORTATION INFORMATION

D.O.T. PROPER SHIPPING NAME: UN3077, Environmentally Hazardous Substance, solid, n.o.s. (Cupric sulfate), 9, PGIII

SECTION 15. REGULATORY INFORMATION

In case of spills, RQ (Reportable Quantity) = 10 lb
This product is an EPA-registered pesticide.

SECTION 16. OTHER INFORMATION

REVISION DATE: May 31, 2015

HMIS: Health = 2, Flammability = 0, Reactivity = 0, Personal Protection = B

The information contained in this SDS was obtained from current and reliable sources. However, the data are provided without any warranty, expressed or implied, regarding its correctness or accuracy, since the conditions of handling, storage and disposal of this product are beyond the control of this Company. The Company is not responsible for loss, injury and expense arising out of the product's improper use. No warranty, expressed or implied, shall be established by any statement herein. Various government agencies may have specific regulations regarding the transportation, handling, storage, use or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.