



SAFETY DATA SHEET

Trade name: Flowers Alive![®] for Perennials

Product No: 8823, 8794

Print date: 11/15/19

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Flowers Alive![®] for Perennials

Product Number: 8823, 8794

Product Use: Fertilizer

CAS #: 7758-98-7

Common Name: Basic Copper Sulfate

EPA Number: 46923-2

Chemical Family: Herb based

Manufacturer Name and Address: Gardens Alive 230 Mary Ave.
Greendale IN 47025

Emergency Phone Numbers: (513) 354-1483

Emergency Phone Number (Poison Control): 800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

Routes of entry: Ingestion, skin, eyes and inhalation.

Inhalation: Inhalation of dust may cause irritation to upper respiration tract.

Skin Contact: Certain individuals may be sensitive to copper.

Eye Contact: Severe eye irritant. Causes substantial, but temporary, eye damage. May be corrosive to eyes.

Eye irritation Score:

(unwashed) 24 hours = 14.33

(unwashed) 48 hours = 13.33

(unwashed) 72 hours = 3.33

(unwashed) 7 Days = 0

Ingestion: Ingestion can cause diarrhea, vomiting and stomach pain.
LD 50 (rats) = 1000 mg/kg

Carcinogenicity?: None per NTP, OSHA and IARC

Pictograms:



Signal Word:

Warning



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Hazard Statements:

Toxic to fish and Plants.

Severe eye irritant. Causes substantial, but temporary, eye damage. May be corrosive to eyes. May cause irritation to upper respiration tract.

SECTION 3. HAZARDOUS INGREDIENTS / INDENTITY INFORMATION

		CAS#	OSHA PEL	ACGIH TLV
Elemental Copper:	53%	7758-98-7		
Basic Copper Sulfate:		1344-73-6		
Molecular Formula:	$CuSO_4 \cdot 3Cu(OH)_2 \cdot H_2O$			

SECTION 4: FIRST AID MEASURES

Ingestion: Give large amounts of milk or water. Induce vomiting. Do not give anything by mouth or induce vomiting if the person is unconscious. Call Poison Control Center or a physician.

Inhalation: Remove person to fresh air and call a physician.

Eyes: Immediately flush eyes with plenty of water for 15 minutes. Hold eyelids apart during irrigation. Call a physician.

Skin Contact: Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse. Get medical attention if necessary.

SECTION 5: FIREFIGHTING MEASURES

Flammable Limits (%air): Not flammable. If heated above 570°F, it can decompose to emit toxic fumes of oxide and sulfur.

Extinguishing Media: Basic copper sulfate does not burn nor will it support combustion. Use dry chemical, carbon dioxide, foam or water mist or fog. If stored with other combustible products, use water, CO₂ or dry chemical.

Special Firefighting Procedures And Precautions:

If dry heated above 300°C, SO₂ is evolved. If water is used, dike fire. Control water for later disposal. Keep away from streams or lakes.

Unusual Fire and Explosion Information:

Not required.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Comply with Federal, State and local regulations on reporting spills. Do not Wash away the powder. Recover dry if possible. If product is in a confined Solution, pump into a chemical waste container.

Aquatic Toxicity: Daphnia LC 50 = in excess of 320 ug/liter.

Other Precautions: None other than those stated in the SDS or on the package.

SECTION 7: HANDLING AND STORAGE

Waste Disposal Method: Do not reuse container. Dispose of powder or solutions and container in Accordance with Federal, State and Local regulations.

Environmental Effects: Toxic to fish and plants.

Handling and Storage: Store in a dry place.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Wear an approved respirator for dusts or mists.

Protective Gloves: Gloves should be worn to prevent prolonged skin contact.

Eye Protection: Chemical safety goggles.

Work/Hygiene Practices: Practice normal personal hygiene.

Other Protective Equipment: Protective clothing should be worn to prevent prolonged skin contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Bluish-green

Physical State: Fine Powder

Odor: Odorless

Spec Gravity: 0.800-0.900

Boiling Point: Not required.

Melting Point: 572°F (decomposes)

Solubility in Water: Insoluble (soluble in acids)



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SECTION 10: STABILITY AND REACTIVITY

Stability: Stable at normal temperatures.
Conditions To Avoid: May burn, but will not ignite.
Materials To Avoid: Oxidizing agents.
Hazardous Decomposition or By-Products: None at normal production temperatures and pressures. If dry heated above 300[°]C, toxic sulfur may evolve.
Hazardous Polymerization: Will not occur.

Chemical Incompatibility: Mixing with acid will solubilize product producing water soluble products.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxic to fish and plants.

SECTION 12: ECOLOGICAL INFORMATION

Unknown for mixture.

SECTION 13: DISPOSAL CONSIDERATION

Dispose of in accordance with prevailing local, state and federal regulations.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

DOT Shipping Name: Non-Regulated

US REGULATIONS: See 313 Information. This product contains the following substance subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: **COPPER COMPOUND 53.0%**.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: **AN IMMEDIATE HEALTH HAZARD.**

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200)



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SECTION 16: OTHER INFORMATION

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the manufacturer's knowledge and belief, accurate and reliable as of the date of the preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the manufacturer shall not be liable for any loss or damage arising out of the use thereof. In addition, the manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

NOTICE: How this product is used is very important and beyond the control of the seller. The buyer assumes all risks for any use beyond those described on the label or for any use under abnormal conditions.