



PRODUCT INFORMATION

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EMERGENCY - MARTRON 704-289-1934

CHEMTREC 800-424-9300

REF. # MFC-006016

MARTRON COPPER SULFATE

SECTION 1. INTRODUCTION

Martron Copper Sulfate is manufactured using only sulfuric acid and pure copper metal. Recycled copper is not used in the production process. This produces a high purity material, which is low in both organic and inorganic impurities. It is intended for the make-up and replenishment of acid copper plating solutions, but its high purity also allows it to be used for the make-up and replenishment of printed circuit board plating solutions. Purification or filtration is not required before use.

SECTION 2. SPECIFICATIONS

	<u>Typical</u>	<u>Specification</u>
Copper (Cu) -	9.12 oz/gal (68.8 g/l)	9.0 oz/gal (67.5 g/l) Minimum
CuSO ₄ • 5 H ₂ O -	36.0 oz/gal (270 g/l)	35.4 oz/gal (265.5 g/l) Minimum
Iron (Fe) -	< 2 ppm	10 ppm Max.
Lead (Pb) -	<1 ppm	2 ppm Max.
Nickel (Ni) -	< 0.4 ppm	1 ppm Max.
Zinc (Zn) -	< 0.4 ppm	1 ppm Max.
Manganese (Mn) -	< 1 ppm	5 ppm Max.
Specific Gravity -	1.167	1.16 - 1.185

SECTION 3. PROPERTIES

Formula -	CuSO ₄ • 5 H ₂ O (Molecular Weight - 249.69)
Appearance -	Clear, blue solution
Weight -	9.7 lbs./gal (1163 g/l)

SECTION 4. WASTE DISPOSAL

This material must be disposed of in accordance with all applicable federal, state, provincial, and local regulations and permits. Consult the Safety Data Sheet (SDS) for additional regulatory information. The information contained herein is general in nature and may not apply to each application.

SECTION 5. GENERAL SAFETY PRECAUTIONS

When working with this product(s), ensure that all health, environmental, and safety regulations and standards are met. Avoid direct contact with this material. Do not inhale associated mist, vapors, and/or dust. Maintain and limit exposure as recommended by OSHA, ACGIH, and other federal, state/provincial and local regulations. Wash contaminated clothing before reuse. Always comply with the Hazard Communication Standard, 29 CFR 1910.1200 and Workplace Hazardous Materials Information System. Emergency showers and eyewashes must be readily available. Wear the appropriate personal protective equipment for the chemistry being handled.

It is recommended that the plating chemistry product(s) referred to in this Technical Information Sheet be used: (a) in accordance with the information provided in product specific SDS; and (b) in compliance with all applicable requirements and guidelines established by OSHA, NIOSH, ACGIH, NFPA, and others.

NOTE: A Safety Data Sheet (SDS) for this product(s) is available upon request from **Martron Inc., 1394A Walkup Ave., Monroe, NC 28110.**

REVIEW Safety Data Sheet (SDS) BEFORE USING THIS PLATING CHEMISTRY AND FOR SPECIFIC INFORMATION.

A precautionary approach should be used when there is potential for chemical exposure -- this includes minimizing exposure potential, rapid decontamination, and medical follow-up.

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