



TECHNIC, INC.

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT IDENTIFICATION

TRADE NAME (as labeled):

COPPER FB PLATING SOLUTION

CHEMICAL NAMES, COMMON NAMES:

Copper Sulfate Pentahydrate, Sulfuric Acid

MANUFACTURER'S NAME & ADDRESS:

NAME OF PREPARER: WILLIAM A. WILSON

TECHNIC, INC.

DATE PREPARED: August 10, 1995

1 SPECTACLE STREET

CRANSTON, RI 02910

EMERGENCY PHONE: (401)781-6100

24-hour Emergency: Chem Trec 1-800-424-9300

SECTION II

HAZARDOUS INGREDIENTS

CHEMICAL NAMES	CAS NUMBER	PERCENT	EXPOSURE LIMITS
Copper Sulfate Pentahydrate $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	7758-99-8	6.89%	TWA = 1.0 mg (as Cu)/M ³ ACGIH
Sulfuric Acid H_2SO_4	7664-93-9	16.05%	TWA = 1.0 mg/M ³ ACGIH STEL = 3.0 mg/M ³ ACGIH

This product is regulated as a toxic chemical under Section 313 of Title III/SARA, and 40 CFR, Part 372.
This product is not regulated by the California Proposition 65 list.
For purposes of the New Jersey Right To Know Law, the contents are partially unknown.
All ingredients are listed in the TSCA inventory.

SECTION III

PHYSICAL PROPERTIES

VAPOR DENSITY (AIR=1)

N.A.

SPECIFIC GRAVITY:

VAPOR PRESSURE (mm Hg)

N.A.

MELTING POINT (degrees F)

EVAPORATION RATE (BUTYL ACETATE=1)

N.A.

BOILING POINT (degrees F)

SOLUBILITY IN WATER:

Completely soluble.

pH

APPEARANCE AND ODOR:

Blue solution; odorless.

SECTION IV

FIRE AND EXPLOSION

FLASH POINT (°F) (METHOD USED):

N.A. (Does not burn.)

AUTOIGNITION TEMPERATURE, F.

N.A.

FLAMMABLE LIMITS IN AIR, VOLUME %:

LOWER LIMIT N.A. UPPER LIMIT N.A.

FIRE EXTINGUISHING MATERIALS:

Use media appropriate for the surrounding fire.

 WATER SPRAY

 CARBON DIOXIDE

 OTHER:

 FOAM

 DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES:

Wear a NIOSH/MSHA approved, self-contained breathing apparatus and protective gear, if fully involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

SECTION V HEALTH HAZARD INFORMATION

SYMPTOMS OF OVER-EXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE.

INHALATION: Irritation and damage to mucous membrane and tissue of the upper respiratory tract.

CONTACT WITH SKIN OR EYES: Severe damage to tissue with possible loss of sight and dermatitis. Destructive on tissue.

ABSORBED THROUGH SKIN: Attacks tissue rapidly.

SWALLOWED: Severe injury to tissue with possible death.

HEALTH EFFECTS OR RISKS FROM EXPOSURE. EXPLAIN IN LAY TERMS. ATTACH EXTRA PAGE IF MORE SPACE IS NEEDED.

ACUTE: Local: Irritant, ingestion, inhalation - High. May cause death or permanent injury after very short exposure to small quantities.

Systemic: Unknown.

CHRONIC: Local: Irritant, inhalation - Moderate. May involve both irreversible and reversible changes; not severe enough to cause death or permanent injury.

Systemic: Unknown.

FIRST AID: EMERGENCY PROCEDURES

EYE CONTACT: Flush eyes with water (under lids as well) for 15 minutes and contact physician immediately. Flush another 15 minutes if physician is not immediately available.

SKIN CONTACT: Flush immediately with copious amounts of water. Remove contaminated clothing. Call physician.

INHALED: Remove to fresh air. Give artificial respiration if necessary. Keep patient warm. Call physician.

SWALLOWED: Obtain medical attention as soon as possible. Give large quantities of water to dilute the acid. Induce vomiting by giving emetic (2 tablespoons of salt in a pint of water). Give additional water to wash out stomach.

SUSPECTED CANCER AGENT? ☒ NO ☐ YES

SECTION VI REACTIVITY DATA

STABILITY: ☒ STABLE ☐ UNSTABLE

CONDITIONS TO AVOID: Contact with sulfides, cyanides.

INCOMPATIBILITY (MATERIALS TO AVOID): Sulfides, cyanides.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): Sulfur dioxide and sulfur trioxide could be evolved in a hot fire.

HAZARDOUS POLYMERIZATION: ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID: None.

SECTION VII SPILL, LEAK AND DISPOSAL PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Neutralize with sodium bicarbonate. Sweep up and dispose of at a proper hazardous waste site.
Flush spill area with water.

See Section VIII for employee protection.

WASTE DISPOSAL: SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

SECTION VIII SPECIAL HANDLING INFORMATION**VENTILATION:**

Local exhaust.

RESPIRATORY PROTECTION:

Optional. (NIOSH/MSHA approved respirator in a major spill)

EYE PROTECTION:

Chemical goggles or face shield.

GLOVES:

Rubber gloves.

OTHER CLOTHING AND EQUIPMENT:

Optional. (Rubber apron)

WORK PRACTICES, HYGIENIC PRACTICES:

Wash thoroughly after handling.

OTHER HANDLING AND STORAGE REQUIREMENTS:

Store in a cool, dry place away from cyanides, sulfides.
(55-85 ° F)

