

Fred Hiatt 5/3/00



# TECHNIC, INC.

## MATERIAL SAFETY DATA SHEET

### SECTION I PRODUCT IDENTIFICATION

TRADE NAME (as labeled):

ACID COPPER ELECTROLYTE

CHEMICAL NAMES, COMMON NAMES:

MANUFACTURER'S NAME & ADDRESS:

PRODUCT CODE NO:

TECHNIC, INC.

1 SPECTACLE STREET

CRANSTON, RI 02910

EMERGENCY PHONE: (401) 781-6100

NAME OF PREPARER: WILLIAM A. WILSON

DATE PREPARED: MAY 5, 1992

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	24.6%	TLV = 1.0 mg/M <sup>3</sup> (as Cu) ACGIH
Sulfuric Acid $\text{H}_2\text{SO}_4$	7664-93-9	17.3%	TWA = 1.0mg/M <sup>3</sup> ACGIH STEL = 3.0 MG/m <sup>3</sup> ACGIH

This material is regulated as a toxic chemical under Section 313 of Title III/SARA, and 40 CFR, Part 372.

This material contains no ingredients that are listed on the California Proposition 65 list.

All ingredients are listed in the TSCA inventory.

### SECTION III PHYSICAL PROPERTIES

VAPOR DENSITY (AIR=1)

N.A.

SPECIFIC GRAVITY:

1.05

VAPOR PRESSURE (mm Hg)

N.A.

MELTING POINT (degrees F):

N.A.

EVAPORATION RATE (BUTYL ACETATE=1)

N.A.

BOILING POINT (degrees F):

N.D.

SOLUBILITY IN WATER:

Completely soluble.

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: If fully involved in a fire, 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.

## 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 A FURTHER DETAIL IF MORE INFORMATION IS NEEDED.

**ACUTE:** Local: Irritant, ingestion, irritation - 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 poison. Induce vomiting by giving emetic (2 tablespoons of salt in a pint of water). Give additional water to wash out stomach.

SUSPECTED CANCER AGENT? Y NO YES

## SECTION VI REACTIVITY DATA

Stability: Y 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   X   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:**

Neutralized 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 VII \_\_\_\_\_ SPECIAL HANDLING INFORMATION \_\_\_\_\_

VENTILATION: Local exhaust.

RESPIRATORY PROTECTION Optional. (NIOSH/MSHA approved respirator).

EYE PROTECTION: Chemical goggles or face shield.

GLOVES: Rubber gloves.

OTHER CLOTHING AND EQUIPMENT: Rubber apron (optional).

WORK PRACTICES, HYGENIC PRACTICES: Wash thoroughly after handling.

OTHER HANDLING AND STORAGE REQUIREMENTS: Store in a cool, dry place away from cyanides, sulfide  
(55-85°F)