

Fred Hatt 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: **TECHNIC, INC.**

1 SPECTACLE STREET
CRANSTON, RI 02910
EMERGENCY PHONE: (401) 781-6100

PRODUCT CODE NO:

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 CuSO ₄ ·5H ₂ O	7758-99-8	24.6%	TLV = 1.0 mg/M ³ (as Cu) ACGIH
Sulfuric Acid H ₂ SO ₄	7664-93-9	17.3%	TWA = 1.0mg/M ³ ACGIH STEL = 3.0 MG/m ³ 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.

DETAILED EFFECTS OR RISKS FROM EXPOSURE THAT TREATMENT IS NEEDED.

ACUTE: Local: Irritation, 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 eyes for 15 minutes if physician is not immediately available.

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

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

SWALLOWED: Obtain medical attention immediately. Call physician. Induce vomiting by giving emetic (2 tablespoons of salt in a pint of water). Give additional water to wash out stomach.

SUSPECTED CANCER AGENTS? 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 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)