



TECHNIC, INC.

MATERIAL SAFETY DATA SHEET

BH Elect.
Tom Yeh
2/04

SECTION I PRODUCT IDENTIFICATION

TRADE NAME (as labeled): **TECHNIC CU 2300 ELECTROLYTE**

copper plating solution

CHEMICAL NAMES, COMMON NAMES:

MANUFACTURER'S NAME & ADDRESS:

TECHNIC, INC.
1 SPECTACLE STREET
CRANSTON, RI 02910

EMERGENCY PHONE: (401) 781-6100

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

PRODUCT CODE NO. ATD 170740

NAME OF PREPARER: ALLAN H. REED

DATE PREPARED: AUGUST 8, 2003

SECTION II HAZARDOUS INGREDIENTS

CHEMICAL NAMES

CAS NUMBER

PERCENT

EXPOSURE LIMITS

Copper Sulfate Pentahydrate

7758-99-8

5-10%

1.0 mg/M³ (as Cu) ACGIH TWA

Sulfuric Acid

7664-93-9

10-20%

1.0 mg/M³ ACGIH TWA, OSHA PEL
3.0 mg/M³ ACGIH STEL/C

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.
All ingredients are listed in the TSCA inventory.
For purposes of the New Jersey Right To Know Law, the contents are partially unknown.

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.

pH:

<1

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 full protective gear if fully involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May emit toxic fumes under fire conditions.

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 with water, including under lids, for fifteen minutes. Obtain immediate medical attention.
SKIN CONTACT:	Remove contaminated clothing and wash affected area thoroughly with soap and water. Launder clothing before rewearing. Seek medical attention for prolonged skin irritation.
INHALED:	Remove patient to fresh air. Support breathing if required. Obtain medical treatment for dizziness, unconsciousness, or irritation or difficulty in breathing.
SWALLOWED:	If patient is conscious, rinse mouth and drink at least two large glasses of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

SUSPECTED CANCER AGENT? X NO YES

SECTION VI REACTIVITY DATA

Stability: X Stable Unstable

CONDITIONS TO AVOID: Excessive heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Sulfides and 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**

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 to maintain TLV.

RESPIRATORY PROTECTION: In a major spill, use a NIOSH/MSHA approved respirator.

EYE PROTECTION: Chemical goggles or face shield.

GLOVES: Rubber gloves.

OTHER CLOTHING AND EQUIPMENT: Rubber apron is optional.

WORK PRACTICES, HYGIENIC PRACTICES: Wash thoroughly after handling and before eating or smoking.

OTHER HANDLING AND STORAGE REQUIREMENTS: Keep container closed.
Store in a cool, dry place away from cyanides, sulfides (55-85°F). Avoid contact with skin. Store away from food products. Keep containers tightly closed when not in use.

H	
Health	3
F	
Flammability	0
R	
Reactivity	0
Personal Protection	C