



# TECHNIC, INC.

## MATERIAL SAFETY DATA SHEET

### SECTION 1

### PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):                      TECHNI SOLDER NF TIN CONCENTRATE (300/G/L)

CHEMICALS NAMES, COMMON NAMES:

PRODUCT CODE:    330290

MANUFACTURE'S NAME & ADDRESS:

PREPARED BY:      ALLAN H. REED

TECHNIC INC.

DATE PREPARED:    July 7, 2005

1 SPECTACLE STREET

CRANSTON, RI 02910

EMERGENCY PHONE: 401-781-6100

24 HOUR EMERGENCY: CHEM TREC 800-424-9300

OUTSIDE THE USA AND CANADA: 703-527-3887

### SECTION 2

### COMPOSITION / INFORMATION ON INGREDIENTS

<u>CHEMICAL NAMES</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>	<u>EXPOSURE LIMITS</u>
Tin methane sulfonate	53408-94-9	45-55%	2 mg/m <sup>3</sup> (Sn) ACGIH TWA, OSHA PEL
Methane sulfonic acid	75-75-2	< 8%	None established.

### SECTION 3

### HAZARD IDENTIFICATION

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

**INHALATION:**                                      Fumes can cause severe irritation to the upper respiratory tract and nose, resulting in coughing, sneezing and difficulty in breathing.

**CONTACT WITH SKIN OR EYES:**    Causes severe burns with possible permanent damage.

**ABSORBED THROUGH SKIN:**              May cause irritation.

**SWALLOWED:**                                      Produces severe burns to mouth, stomach and gastrointestinal tract.  
Can result in possible death.

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SUSPECTED CANCER AGENT?      X        NO                                                      YES

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**HEALTH EFFECTS OR RISKS FROM EXPOSURE. EXPLAIN IN LAY TERMS.**

**ACUTE:** Contact with eyes may cause blindness. Contact with skin may cause severe burns. Inhalation may cause swelling of the upper respiratory tract and accumulation of fluid in the lungs (pulmonary edema).

**CHRONIC:** Moderately irritating to eyes. Repeated or prolonged contact with skin may cause dermatitis. If ingested, may cause gastrointestinal tract damage. Chronic overexposure to tin compounds has resulted in stannosis, a benign pneumoconiosis.

**SECTION 4****FIRST AID MEASURES****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.

**SECTION 5****FIRE FIGHTING MEASURES**

**FLASH POINT (°F) (METHOD USED):** N.A. (Will 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                       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:** Thermal decomposition may release sulfur dioxide, sulfur trioxide and carbon oxides.

**SECTION 6****ACCIDENTAL RELEASE MEASURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Dike to prevent spread of spill. Dilute to twice the volume with water. Neutralize by means of slow and careful applications of a solution of soda ash and water. Dispose of material, containers and washings in compliance with all applicable regulations. Do not allow this material to enter storm or sanitary sewers.

**SECTION 7****HANDLING AND STORAGE**

**HANDLING AND STORAGE REQUIREMENTS:** Keep container tightly closed. Store in a cool dry area away from excessive heat and open flame. Never use pressure to empty drums. Keep closure upright to prevent leakage. Do not reuse drums. Do not use containers as dilution or mixing vessel.

**SECTION 8****EXPOSURE CONTROLS / PERSONAL PROTECTION**

**VENTILATION:** Local exhaust required, mechanical is recommended.

**RESPIRATORY PROTECTION:** NIOSH/MSHA approved respirator with canister for sulfur oxides in a major spill.

**EYES PROTECTION:** Goggles and face shield.

**GLOVES:** Rubber gloves.

**OTHER CLOTHING AND EQUIPMENT:** Acid resistant apron and rubber boots.

**WORK PRACTICES, HYGIENIC PRACTICES:** Wash thoroughly after handling and before eating or smoking. Wash contaminated clothing before reuse.

**SECTION 9****PHYSICAL / CHEMICAL PROPERTIES**

**VAPOR DENSITY (AIR =1):** N.D. **SPECIFIC GRAVITY:** 1.48-1.58

**VAPOR PRESSURE (MM Hg):** N.D. **MELTING POINT (°F):** N.D.

**EVAPORATION RATE (BUTYL ACETATE=1):** N.D. **BOILING POINT (°F):** N.D.

**SOLUBILITY IN WATER:** Complete **pH:** < 2

**APPEARANCE AND ODOR:** Clear, colorless to pale yellow liquid; slight sulfur oxide odor.

**SECTION 10****STABILITY AND REACTIVITY**

**STABILITY:**   X   STABLE        UNSTABLE

**CONDITIONS TO AVOID:** Excess heat.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong alkalis, water reactive materials and cyanides.

**HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS):**  
Sulfur dioxide, sulfur trioxide (thermal) and carbon oxides.

**HAZARDOUS POLYMERIZATION:**        MAY OCCUR   X   WILL NOT OCCUR

**SECTION 11****TOXICOLOGICAL INFORMATION**

**ACUTE EFFECTS:** See section 3.

**IRRITATION DATA:** See section 3.

**TOXICITY DATA:** No data available for tin methane sulfonate.  
Oral LD50 (rat) 1158 mg/kg (methane sulfonic acid)

**TARGET ORGAN DATA:** See section 3.

**SECTION 12****ECOLOGICAL INFORMATION**

This material is toxic to aquatic life.

**SECTION 13****DISPOSAL CONSIDERATIONS**

Dispose of all chemical wastes at an appropriate waste disposal facility. Follow all local, state, and federal regulations for disposal of waste chemicals.

**SECTION 14****TRANSPORT INFORMATION**

**Proper Shipping Name:** Corrosive Liquid, Acidic, Organic, N.O.S.  
(Stannous Methane Sulfonate, Alkyl Sulfonic Acid Mixture)

**Identification Number:** UN3265

**Hazard Class:** 8

**Packaging Group:** II

**SECTION 15****REGULATORY INFORMATION**

This product is not 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 the purposes of the New Jersey Right to Know Law, the contents are partially known.

**SECTION 16****OTHER INFORMATION**

<b>H</b>	
<b>Health</b>	<b>3</b>
<b>F</b>	
<b>Flammability</b>	<b>0</b>
<b>R</b>	
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>C</b>