



TECHNIC, INC.

MATERIAL SAFETY DATA SHEET

SECTION 1

PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): PURE TIN ANODE BUTTON Sn99.99%

CHEMICALS NAMES, COMMON NAMES:

PRODUCT CODE: CH00324

DISTRIBUTOR'S NAME & ADDRESS:

TECHNIC ASIA PACIFIC PTE LTD

25 GAL AVENUE

SINGAPORE

EMERGENCY PHONE: (65)6793-8000

PREPARED BY: ARIFFIN OTHMAN

DATE PREPARED: October 31, 2007

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 (metal)	7440-31-5	99.99%	2.0 mg/m ³ ACGIH TLY 2.0 mg/m ³ OSHA PEL
Others		0.01 %	None reported

SECTION 3

HAZARD IDENTIFICATION

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

INHALATION: Long term inhalation of tin or insoluble tin compounds may cause tin dust lungs (stannosis).

CONTACT WITH SKIN OR EYES: No data was available

SWALLOWED: Intake of tin has caused vomiting, diarrhea and depression of central nervous system with symptoms like fatigue , headache and ataxia.

SUSPECTED CANCER AGENT? X NO YES (IARC,NTP)

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

Acute toxicity of pure tin is low

SECTION 4 FIRST AID MEASURES**FIRST AID: EMERGENCY PROCEDURES**

EYE CONTACT: Flush eyes with plenty of water immediately for at least 15 minutes. Seek medical attention.

SKIN CONTACT: Wash thoroughly with soap and warm water.

INHALED: Evacuate to a safe area with fresh air.

SWALLOWED: Seek medical attention

SECTION 5 FIRE FIGHTING MEASURES

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 CARBON DIOXIDE OTHER

FOAM DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES: Wear approved self-contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

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

Place into a properly labeled waste container and may be sent for recovery following appropriate recovery routes or methods.

SECTION 7 HANDLING AND STORAGE**HANDLING AND STORAGE REQUIREMENTS:**

Store in a cool environment away from oxidizing agents.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Mechanical exhaust is required if application generates dust, fumes or mist.

RESPIRATORY PROTECTION: Wear approved respirator when ventilation is inadequate to meet exposure limits.

EYES PROTECTION: Chemical splash goggles.

GLOVES: Wear rubber gloves to avoid repeated or prolonged skin contact.

OTHER CLOTHING AND EQUIPMENT: As needed to prevent skin contact.

WORK PRACTICES, HYGIENIC PRACTICES: Wash hands thoroughly with soap and water after handling and before eating or smoking.

SECTION 9 PHYSICAL / CHEMICAL PROPERTIES

VAPOR DENSITY (AIR =1): N.D.

SPECIFIC GRAVITY: 7.28

VAPOR PRESSURE (MM Hg): N.D.

MELTING POINT (°C): 232° C

EVAPORATION RATE (BUTYL ACETATE=1): N.D.

BOILING POINT (°C): 600° C

SOLUBILITY IN WATER: NA

pH: N.A

APPEARANCE AND ODOR: Metallic buttons

SECTION 10 STABILITY AND REACTIVITY

STABILITY: STABLE UNSTABLE

CONDITIONS TO AVOID: None.

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): Unknown

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

SECTION 11**TOXICOLOGICAL INFORMATION**

- ACUTE EFFECTS:** See section 3.
- IRRITATION DATA:** See section 3.
- TOXICITY DATA:** Triethyltin increased absorption in the body is highly toxic ,
Triethyltin and other Sn compounds cause brain dysfunction and cerebral fluid retention.
- TARGET ORGAN DATA:** See section 3. Gastro-intestinal tract, bones, kidneys and the liver.

SECTION 12**ECOLOGICAL INFORMATION**

Organic tin compounds are toxic to the aquatic ecosystem.

SECTION 13**DISPOSAL CONSIDERATIONS**

Dispose according to federal, state and local regulations. This product is suitable for recovery following appropriate recovery routes or methods.

SECTION 14**TRANSPORT INFORMATION**

Not DOT regulated.

SECTION 15**REGULATORY INFORMATION**

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

H Health	1
F Flammability	0
R Reactivity	0
Personal Protection	B