## MATERIAL SAFETY DATA SHEET July 1, 1986

	Unit(s) Size 30, 100, 500 grams; 2.5 Kg. HAZARD BATING		ľ	Product IN METAL CHEMTREC
HIXA EXIA	Reactivity	Fire	Health	

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Principal Hazardous Component(s) SEPHONII MAZAHDOUSINGREDIENISIOFMIXIURIES

Tin Metal 100% % TWA: 2 mg/m3 (Air) TLV Units

HARMFUL IF INHALED AS DUST OR FUNE.

CAUTIONS

Vapor Pressure (mm Hg) 1 mm at 1492° C Evaporation Rate = 1) Non-volatile (NA)	Boiling Point (°F) 2270° C (4118° F) Percent Volatile Non-volatile (NA)	Melting Point (°F) 231.9° C Specific Gravity III.0 = 10 7.31 at 20° C	SECTION III PHYSICAL DATA
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Solubility in Water Appearance and Odor Silvery white metallic powder, granular, mossy, shot; no odor. Insoluble in water

Extinguisher Media lash Point Method Used) Use Not flammable (NA) any media suitable for extinguishing supporting fire. VALVO GEVZZYH NOISON \* by Volume 중

SPECIAL FIREFIGHTING PROCEDURES

contact with In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing to prevent skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Slight fire hazard. Fire or excessive heat may produce hazardous dust or fume. In contact with acids, emits hydrogen gas. This gas is flammable and can cause explosion.

NON-REGULATED

D.O.T.

CIENTIFIC

905 HICKORY LANE MANSFIELD OHIO 44905 FREY SCIENTIFIC

MSDS No. Effective Date

Rev. No.

No.1

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

## SECTION V - HEALTH HAZARD DATA

Threshold Limited Value

**Effects of Overexposure** 

ACGIH 1984-85-TLV 8-hr. TWA: 2 Milligrams per cubic meter in air.

INHALATION: Exposure to the fume or dust may lead to pneumocontosis without symptoms of interference with pulmonary functions. INCESTION: May irritate Symptoms of interference with pulmonary functions. <u>INGESTION:</u> Way irritate stomach lining. <u>EYES:</u> May irritate eyes. <u>SKIN:</u> None expected. <u>INMALATION:</u> When inhaled as a dust or fume tin leads to a benigm pneumocomiosis.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water, keep eye lids open when flushing water. If fritation develops or persists, get medical attention. It Remove to fresh air. If ill effects develope, get medical attention. induce vomiting and call physician. SKIN: Flush thoroughly with water, keep eye lids open when flushing with If swallowed, if conscious, give one or two glasses of water, Flush with water.

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SECTION VI REACTIVITY DATA

Stability Unstable Stable Conditions to Avoid Contact with acid emits hydrogen gas.

(Materials to avoid) Incompatibility

Hazardous

Strong oxidizers, chlorine, cupric nitrate, potassium, sodium peroxide, sulfur, Halogens, Sulfurous, Chlorsulfuric and Pyrosulfuric acid.

Reacts with acids; will cause evolution

Hazardous Polymerization **Decomposition Products** May Occur Will Not Occur **Conditions to Avoid** Oxides of tin may be present. of flammable hydrogen gas. Not applicable.

SECTION VII SPILL OR LEAK P ROCEDURES

Steps to be taken in case material is released or spilled

container for disposal. Sweep up and recycle or place in a suitable

Waste Disposal Method

Uncontaminated material may be disposed of in a sanitary landfill.

Discharge, treatment, or disposal may be subject to federal, state, or local laws

SECTION VII I SPECIAL PROTECTION INFORMATION

Ventilation Local Exhaust Rone at room temperature
Recommended 

Other Protective Equipment Protective Gloves

lab coat, eye wash station, ventilation hood for fume on heating or dust.

None should be needed

Eye Protection

Chemical safety glasses

Precautions to be Taken in Handling and Storing

SECTIONIX SPECIAL PR Store in a cool, dry place away from fire hazards and oxidizing materials.

(eep container tightly closed when not in use.

Other Precautions

Read label on container before using

Avoid conditions which create fume. Store away from acid and acid

For laboratory use only. Not for drug, food or household use. Keep out of reach of children

Date 1/12/87 Approved (Mandel C. Chemical Safety

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