



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. TT 170
Effective Date March 17, 1998

SECTION V HEALTH HAZARD DATA

TT 170

Threshold Limited Value ACGIH 1992-93 Tin metal: TWA: 2 mg/m³.
Organic compounds as Sn: TWA: 0.1 mg/m³; STEL: 0.2 mg/m³.

Effects of Overexposure **INHALATION:** Exposure to the fume or dust may lead to pneumoconiosis without symptoms of interference with pulmonary functions. **INGESTION:** May irritate stomach lining. **EYES:** May irritate eyes. **SKIN:** None expected.

Emergency and First Aid Procedures **EYES:** Using great care, flush thoroughly with water, lifting upper and lower eyelids occasionally. Get medical attention. **INHALATION AS DUST OR FUME:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water, induce vomiting and call physician. Never give anything by mouth to an unconscious person. **SKIN:** Wash with mild soap and water.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid) Strong oxidizers, chlorine, cupric nitrate, potassium, sodium peroxide, sulfur, Halogens, Sulfurous Chlorosulfuric and Pyrosulfuric acid.

Hazardous Decomposition Products Oxides of tin may be present. Reacts with acids; will cause evolution of flammable hydrogen gas.

Hazardous Polymerization **Conditions to Avoid**
May Occur **Will Not Occur** Not applicable.
X

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sweep up and place in a suitable container for reclamation or disposal. Wash spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling at room temperature. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask.

Ventilation **Local Exhaust** None at room temperature **Special** No.
Mechanical (General) Recommended **Other** No.

Protective Gloves None should be needed. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Lab coat, eye wash station, ventilation hood for fume on heating or dust.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from fire hazards, oxidizing materials, acids and acid fumes. Wash thoroughly after handling.
Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid conditions which create fume. Use care in handling. Abrasive to skin. Remove and wash contaminated clothing.

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

Revision No. 6 **Date** 3/17/98 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	TIN METAL
Chemical Synonyms	Tin Metal, Powder, Granular, Mossy, Shot, Sheet
Formula	Sn
Unit Size	up to 2.5 Kg.
C.A.S. No.	7440-31-5

CHEMTREC
800-424-9300
Day 716-226-6177

Health	0
Fire	0
Reactivity	0

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HMIS *
0 1 2 3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Tin Metal	99.85%	TWA: 2 mg/m ³ (Air)
CAUTION! HARMFUL IF INHALED AS DUST OR FUME.		

SECTION III PHYSICAL DATA

Melting Point (°F)	231.9°C (449°F)	Specific Gravity (H ₂ O = 1)	7.31 at 20°C
Boiling Point (°F)	2270°C (4118°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 mm at 1492°C	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	4.11		
Solubility in Water	Insoluble in water.		
Appearance & Odor	Silvery white metallic powder, granular, mossy, shot, sheet; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

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

D.O.T. NON-REGULATED.

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