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# **International Advanced Materials**

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# **MATERIAL SAFETY DATA SHEET**

**Quick Identifier: Tin** 

I. PRODUCT IDENTIFICATION

Trade Name: Tin Formula: Sn
CAS #: 7440-31-5 Molecular Weight: 7.3 g/cc

II. HAZARDOUS INGREDIENTS

Hazardous Components: OSHA PEL: ACGIH TLV: Other Limits:

Tin N/A N/A N/A

Sec. 302 (EHS):NoSec. 304 RQ:NoSec. 313:yesHMIS Ratings (0-4): Health:1Flammability:3Reactivity:2

**HMIS Protective Equipment**: **G** – Glasses, Gloves, Combination Respirator

III. PHYSICAL DATA

Boiling Point:4100 FMelting Point:449 FSpecific Gravity (H2O=1):7.28Vapor Density (Air=1):N/AVapor Pressure (mm Hg):1513 FEvaporation Rate:N/A% Volatiles by Volume:0Solubility in H2O:NIL

**Appearance and Odor**: Silverery, metallic; no odor

IV. FIRE AND EXPLOSION HAZARDS DATA

Flash Point/Method: None

Explosive Limits: LEL: None UEL: None

Extinguishing Media: None

**Special Fire Fighting Procedures**: None – Tin does not have an explosion or flame point

**Unusual Fire and Explosion Hazards**: None

V. HEALTH HAZARD INFORMATION

**Routes of Entry**: Inhalation, Ingestion and Eyes.

Target Organs: N/A

Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No

LD50/LC50: No toxicity data recorded.

## **Health Hazards (Acute and Chronic):**

**Inhalation:** 

Dust or powder may cause a pneumoconiosis which is relatively benign Acute:

**Chronic:** Elemental tin is not generally considered toxic

**Ingestion:** 

Acute: N/A Chronic: N/A

Skin:

Acute: N/A N/A Chronic: Eye:

N/A Acute: Chronic: N/A

# Signs and Symptoms of Exposures:

Inhalation: N/A **Ingestion**: N/A Skin: N/A Eye: N/A

**Medical Conditions Generally** Aggravated by Exposure:

#### **EMERGENCY AND FIRST AID PROCEDURES:**

INHALATION: Remove subject from source of contamination; seek immediate medical aid

INGESTION: SKIN: N/A EYE: N/A

# VI. REACTIVITY DATA

Stability: Stable

**Incompatibility (Material to avoid):** No known incompatible materials

**Hazardous Decomposition Products:** None **Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** 

#### VII. SPILL OR LEAK PROCEDURES

# **Special Precautions:**

- 1) Tin non considered toxic or dangerous material
- Sweep up and pack in sturdy container if released or spilled
- 3) For waste disposal, return to supplier

## VIII. SPECIAL PROTECTION INFORMATION

NIOSH/MSHA – Approved dust & fume respirator should be used to avoid **Respiratory Protection:** 

excessive inhalation of particulates

**Ventilation: Local Exhaust:** Should be utilized when welding, burning, sawing, brazing, grinding or

machining

Mechanical (General): Dust removal/collection if spraying **Protective Gloves:** Should be used as required by exposure

**Eye Protection:** Safety goggles or glasses should be utilized as required by exposure. Should be utilized as required by the welding standards.

Other Protective Clothing or

**Equipment:** 

Work/Hygienic/Maintenance

**Practices:** 

Normal hygienic practices.

## IX. ADDITIONAL COMMENTS

Some of the chemicals listed herein are research or experimental substances which may be toxic, as defined by various governmental regulations. In accordance with Environmental Protection Agency regulations and the Toxic Substance Control Act (TSCA), these materials should only be handled by, or under the direct supervision of a "technically qualified individual", as defined in 40 CFR 710.2(aa).

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