Safety Data Sheet

Tin Shot



Section 1 Product Description

Product Name: Tin Shot

Recommended Use: Science education applications

Synonyms: Metallic Tin, Stannum

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Tin, Metal
 7440-31-5
 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Combustible in the form of dust when exposed to heat or by spontaneous chemical

reaction with Br2, BrF3, S, Cl2, ClF3, Cu(NO3), K2O2.

Hazardous Combustion Products: Tin Compounds

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is

Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like

granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Avoid creating and inhaling dust.

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Tin Shot Page 1 of 3

Safety Data Sheet

Protection Information Section 8

> **ACGIH OSHA PEL**

(STEL) **Chemical Name** (TWA) (TWA) (STEL) Tin. Metal 2 mg/m3 TWA N/A 2 mg/m3 TWA N/A

(except oxides, as Sn)

Control Parameters

Eye Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

No information available Gloves:

Section 9 Physical Data

Vapor Pressure: 1.3332 hPa at 1492 °C Formula: Sn Molecular Weight: 118.69 Evaporation Rate (BuAc=1): No data available Appearance: Grey Metallic Solid

Odor: None

Odor Threshold: No data available

pH: No data available Melting Point: 232 C **Boiling Point: 2507 C**

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Density (Air=1): No data available

Specific Gravity: 7.28

Solubility in Water: Practically Insoluble Log Pow (calculated): No data available Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Chlorine, Halogens, Bromine Trifluoride, Strong acids, Strong oxidizing agents, Sulfur,

Alkali and Alkaline Metals

Tin Compounds **Hazardous Decomposition Products: Hazardous Polymerization:** Will not occur

Section 11 Toxicity Data

Routes of Entry Ingestion, skin and eye contact.

Symptoms (Acute): Respiratory disorders **Delayed Effects:** No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 **Dermal LD50** Inhalation LC50 Not determined No data available 7440-31-5 Not determined Not determined

Carcinogenicity:

Chemical Name CAS Number NTP **IARC OSHA**

Tin Shot Page 2 of 3

Safety Data Sheet

No data available 7440-31-5 Not listed Not listed Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

No evidence of a teratogenic effect (birth defect). Teratogenicity:

Sensitization: No evidence of a sensitization effect.

No evidence of negative reproductive effects. Reproductive:

Target Organ Effects:

No data available Acute: Chronic: No data available

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data Persistence: No data No data Bioaccumulation: Degradability: No data Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity 7440-31-5 Tin. Metal Not available

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Not regulated for transport by US DOT. Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 302 TPQ **CAA 112(2)** § 313 Name § 304 RQ CERCLA RQ

Number

Tin 7440-31-5 Nο Nο No Nο No

Section 16

Additional Information

Revised: 09/09/2015 Printed: 10-29-2015 Replaces: 05/26/2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

NTP **ACGIH** American Conference of Governmental National Toxicology Program

Industrial Hygienists **OSHA** Occupational Safety and Health Administration

CAS Chemical Abstract Service Number Permissible Exposure Limit PEL

CERCLA Comprehensive Environmental Response, Parts per million ppm

> Compensation, and Liability Act **RCRA** Resource Conservation and Recovery Act

SARA

DOT U.S. Department of Transportation Superfund Amendments and Reauthorization Act **IARC** International Agency for Research on Cancer TLV Threshold Limit Value

N/A Not Available **TSCA** Toxic Substances Control Act

IDLH Immediately dangerous to life and health

Tin Shot Page 3 of 3