

# **SAFETY DATA SHEET**

Creation Date 26-Sep-2009

Revision Date 12-Jun-2019

**Revision Number** 1

1. Identification		
Product Name	Tin	
Cat No. :	NC-14416	
Synonyms	Metallic Tin; Silver Matt Powder; Tin Flake	
Recommended Use	Laboratory chemicals.	
Uses advised against Details of the supplier of the safety	No Information available data sheet	
<b>Company</b> Science Company 7625 W Hampden Ave #14 Lakewood CO 80227 ph: 303-777-3777 www.sciencecompany.com	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887	

2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Specific target organ toxicity (single exposure) Target Organs - Central nervous system (CNS). Category 4 Category 3

# Label Elements

Signal Word Warning

**Hazard Statements** Harmful if swallowed May cause drowsiness or dizziness



**Precautionary Statements** Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Response Call a POISON CENTER or doctor/physician if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage Store in a well-ventilated place. Keep container tightly closed Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Tin	7440-31-5	99.8

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.	
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.	
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.	
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically	

	5. Fire-fighting measures
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available
Autoignition Temperature Explosion Limits	430 °C
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the (	Jueniicai

E Eiro fighting

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

None under normal use conditions

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA_ Health 1	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	elease measures	
Personal Precautions Environmental Precautions		on. Use personal protective equipolation of the section of the sec	ipment.
Methods for Containment and Cle Up	an Sweep up or vacuum up s formation.	spillage and collect in suitable co	ontainer for disposal. Avoid dust
	7. Handling	and storage	
Handling		yes and clothing. Wash hands b Ensure adequate ventilation.	efore breaks and immediately
Storage	Keep containers tightly cl	osed in a dry, cool and well-vent	ilated place.
8. E	Exposure controls	/ personal protection	on

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tin	TWA: 2 mg/m <sup>3</sup>	(Vacated) TWA: 2 mg/m <sup>3</sup>	IDLH: 100 mg/m³ TWA: 2 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Tin	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
		STEL: 4 mg/m <sup>3</sup>	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
	Developt and charge an entire

	9. Physical and chemical properties
Physical State	Solid
Appearance	Silver
Odor	Odorless
Odor Threshold	No information available

pH Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Relative Density Solubility

Autoignition Temperature

**Molecular Formula** 

**Molecular Weight** 

Viscosity

**Decomposition Temperature** 

Partition coefficient; n-octanol/water

231.9 °C

No information available No information available

No data available No data available 1 mmHg @ 1492 °C No information available 7.31 Insoluble in water No data available 430 °C No information available No information available Sn 118.69

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products None under normal use conditions		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

# Acute Toxicity

#### **Component Information**

Componen	t	LD50 Oral	LD50 Oral LD50 Dermal LC50 Inhalation			Inhalation
Tin		700 mg/kg (Rat)	700 mg/kg (Rat) Not listed Not listed			t listed
<b>Toxicologically Syn</b>	ergistic	No information availa	No information available			
Products						
<b>Delayed and immed</b>	iate effects	as well as chronic effects	s from short ar	d long-term expo	sure	
Irritation		May cause eye, skin,	and respiratory	<pre>rtact irritation</pre>		
Sensitization		No information availa	No information available			
<b>•</b> • • • •		The table below indicates whether each agency has listed any ingredient as a carcinoger				
Carcinogenicity		The table below indic	ates whether e	ach agency has lis	ted any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Tin	7440-31-	5 Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	S	No information available.				

Developmental Effects No information available.

Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	Central nervous system (CNS) None known
Aspiration hazard	No information available
Symptoms / effects,both acute and	No information available
delayed Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

#### Ecotoxicity Do not empty into drains.

Persistence and Degradability	No information available
<b>Bioaccumulation/Accumulation</b>	No information available.

Mobility

13. Disposal considerations

No information available.

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT TDG IATA	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

# International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Tin	Х	Х	-	231-141-8	-		Х	-	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable		
SARA 313	Not applicable		

SARA 311/312 Hazardous Categoriz Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard	
Clean Water Act	Not applicable
Clean Air Act	Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

# CERCLA

Not applicable

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

Yes No No No No

#### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tin	Х	Х	Х	-	Х

#### **U.S. Department of Transportation**

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade

No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class	Non-controlled			
	16. Other information			
Prepared By	Regulatory Affairs Gordon Post, Chemist			
Creation Date Revision Date Print Date Revision Summary	26-Sep-2009 12-Jun-2014 12-Jun-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)			

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

# End of SDS