

SAFETY DATA SHEET

Creation Date 03-Dec-2010

Revision Date 25-Dec-2021

Revision Number 5

1. Identification

Product Name

Tin, Powder, 325 mesh

Cat No. :

AC317800000; AC317801000; AC317805000

CAS No Synonyms 7440-31-5 Silver Matt Powder; Metallic Tin

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous system (C	NS).
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Lungs.	
Combustible dust	Yes

Label Elements

Signal Word Warning

Hazard Statements

May form combustible dust concentrations in air Harmful if swallowed Causes serious eye irritation May cause respiratory irritation May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Response

Get medical attention/advice if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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, powder	7440-31-5	>95		
		4. First-aid measures			
Eye Contact		tinse immediately with plenty of water, also under the nedical attention.	ne eyelids, for at least 15 minutes. Get		
Skin Contact Wash off immediately with plenty of water for at			t 15 minutes. Get medical attention.		
Inhalation	F	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.			
Ingestion	C	o NOT induce vomiting. Get medical attention.			

Most important symptoms and	No information available.								
effects Notes to Physician	Treat symptomatically								
	5. Fire-fighting	g measures							
Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.									
Unsuitable Extinguishing Media	No information available								
Flash Point Method -	Not applicable No information available								
Autoignition Temperature	630 °C / 1166 °F								
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available								
Specific Hazards Arising from the Fine dust dispersed in air may ignite.	Chemical								
Hazardous Combustion Products Thermal decomposition can lead to re Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.	ons for Firefighters		ed or equivalent) and full						
<u>NFPA</u> Health 2	Flammability 1	Instability 1	Physical hazards N/A						
	6. Accidental rele	ease measures							
Personal Precautions Environmental Precautions	formation. Avoid contact with		dequate ventilation. Avoid dust 12 for additional Ecological						
Methods for Containment and Clea Up	n Sweep up and shovel into su	uitable containers for disposal	. Avoid dust formation.						
	7. Handling a	nd storage							
Handling	Wear personal protective eq	uipment/face protection. Ensume dust. Avoid contact with sk	ire adequate ventilation. Avoid in and eyes. Do not ingest. If						
Handling Storage.	Wear personal protective eq dust formation. Do not breat swallowed then seek immed Keep containers tightly close	uipment/face protection. Ensu he dust. Avoid contact with sk iate medical assistance. ed in a dry, cool and well-vent	in and eyes. Do not ingest. If						
Storage.	Wear personal protective eq dust formation. Do not breat swallowed then seek immed Keep containers tightly close moisture. Keep under nitrog	uipment/face protection. Ensu he dust. Avoid contact with sk iate medical assistance. ed in a dry, cool and well-vent en. Incompatible Materials. <i>A</i>	in and eyes. Do not ingest. If ilated place. Protect from Acids. Strong oxidizing agents.						

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Tin, powder	TWA: 2 mg/m ³	(Vacated) TWA: 2 mg/m ³	IDLH: 100 mg/m ³	TWA: 2 mg/m ³
			TWA: 2 mg/m ³	STEL: 4 mg/m ³

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
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.

9. Physical	and chemical properties
Physical State	Solid
Appearance	Grey
Odor	Odorless
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	231.9 °C / 449.4 °F
Boiling Point/Range	2270 °C / 4118 °F
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	7.300
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	630 °C / 1166 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Sn
Molecular Weight	118.69
-	

10. Stability and reactivity

None known, based on information available

Reactive Hazard

Moisture sensitive. Air sensitive.

Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to air. Exposure to moist air or water.			
Incompatible Materials	Acids, Strong oxidizing agents, Strong bases, Halogens			
Hazardous Decomposition Product	${f s}$ Thermal decomposition can lead to release of irritating gases and vapors			
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
	11. Toxicological information			
Acute Toxicity				

Component Information Component		LD50 Oral LD50 Dermal			1 0 50	LC50 Inhalation		
Tin, powder				> 2000 mg/kg (Rat)		5 mg/L (Rat) 4 h		
Toxicologically Synergistic Products		No information available						
elayed and immed	ate effects as w	ell as chronic effec	ts from short an	d long-term expo	sure			
rritation		Irritating to eyes an	d respiratory syst	em				
Sensitization		No information ava	ilable					
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Tin, powder	7440-31-5	Not listed	Not listed	Not listed	Not listed	Not listed		
Iutagenic Effects		No information available						
Reproductive Effect	S	No information available.						
Developmental Effect	cts	No information available.						
Feratogenicity		No information available.						
STOT - single expos STOT - repeated exp		Respiratory system Central nervous system (CNS) Lungs						
Aspiration hazard		No information available						
Symptoms / effects delayed	both acute and	No information available						
Endocrine Disruptor	Information	No information available						
Other Adverse Effects		Tumorigenic effects have been reported in experimental animals. The toxicological properties have not been fully investigated.						

Ecotoxicity

Persistence and DegradabilityInsoluble in waterBioaccumulation/ AccumulationNo information available.

Mobility	Is not likely mobile in the environment due its low water solubility.
	13. Disposal considerations
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	Not regulated
<u>TDG</u>	Not regulated
<u>IATA</u>	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Tin, powder	7440-31-5	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Tin, powder	7440-31-5	Х	-	231-141-8	Х	Х		Х	Х	KE-33838

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not app	Not applicable							
SARA 311/312 Hazard Cat	egories See sec	See section 2 for more information							
CWA (Clean Water Act)	Not app	Not applicable							
Clean Air Act	Not app	Not applicable							
OSHA - Occupational Safet Health Administration	y and Not app	Not applicable							
CERCLA	Not app	licable							
California Proposition 65 U.S. State Right-to-Know Regulations	This pro	oduct does not conta	in any Proposition 65 c	chemicals.					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island				

Tin, powder	Х	Х	Х	-	Х		
U.S. Department of Tran Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollut	N N						
U.S. Department of Hom Security		This product does not contain any DHS chemicals.					
Other International Regu	lations						
Mexico - Grade	No info	No information available					

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Tin, powder	7440-31-5	Listed	Not applicable	Not applicable	Not applicable

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
L	Tin, powder	7440-31-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	03-Dec-2010 25-Dec-2021 25-Dec-2021 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 in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS