

SAFETY DATA SHEET

Creation Date 27-Jan-2011

Revision Date 26-Mar-2024

Revision Number 3

 Identification

 Product Name
 Tin wire

 Cat No. :
 11905

 CAS No
 7440-31-5 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

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **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

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Hazard Statements

Precautionary Statements <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Co	ompositio	on/Information on Ingred	lients	
Component		CAS No	Weight %	
Tin		7440-31-5	>95	
			·	
	4.	First-aid measures		
Eye Contact	Rinse immec medical atter		he eyelids, for at least 15 minutes. Get	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.			
Inhalation	Remove to fr	esh air. Get medical attention immedia	tely if symptoms occur.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
Most important symptoms and effects	None reasonably foreseeable.			
Notes to Physician				
	5. Fi	re-fighting measures		
Suitable Extinguishing Media	l lee extinguis	shing measures that are appropriate to	local circumstances and the	
	surrounding			
Unsuitable Extinguishing Media	No information	n available		
Flash Point	No informatio	n available		
Method -	No information	n available		
Autoignition Temperature Explosion Limits	No informatio	n available		
Upper	No data avai	able		
Lower	No data avai			
Sensitivity to Mechanical Impact				
Sensitivity to Static Discharge	No information	n available		
Specific Hazards Arising from the C Keep product and empty container away		nd sources of ignition.		
Hazardous Combustion Products				

None known.

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	Flammability	Instability	Physical hazards
0	0	0	N/A
	6. Accidental rel	lease measures	
Personal Precautions	Ensure adequate ventilatio	n. Use personal protective equi	ipment as required.
Environmental Precautions	See Section 12 for addition	al Ecological Information.	

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal.

Up

7. Handling and storage

Handling

Avoid contact with skin and eyes. Do not breathe dust.

Storage.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Acids. Strong oxidizing agents. Strong bases. Halogens. Metals.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Tin	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: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

None under normal use conditions.

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	No protective equipment is needed under normal use conditions.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	So	lid	
Appearance	Sil	ver	
Odor	Oc	lorless	
Odor Threshold	No	information ava	ailable
рН	No	t applicable	
Melting Point/Range	23	31.9 °C / 449.4	↓ °F
Boiling Point/Range	22	270 °C / 4118	°F @ 760 mmHg
Flash Point	No	information ava	ailable
Evaporation Rate	No	ot applicable	
Flammability (solid,gas)	No	information ava	ailable
Flammability or explosive limits			
Upper	No	data available	
Lower	No	data available	
Vapor Pressure	1 r	nmHg @ 1492	°C
Vapor Density	No	ot applicable	
Specific Gravity	No	information ava	ailable
Solubility	Ins	soluble in water	
Partition coefficient; n-octanol/water	No	data available	
Autoignition Temperature	No	information ava	ailable
Decomposition Temperature	No	information ava	ailable

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Viscosity Molecular Formula Molecular Weight			Not applic Sn 118.69	cable		
		10. Stabili	ty and re-	activity		
Reactive Hazard		None known, based o	on information a	available		
Stability		Stable under normal	conditions.			
Conditions to Avoid	to Avoid Incompatible products.					
Incompatible Mater	rials	Acids, Strong oxidizin	ng agents, Stro	ng bases, Halogens	s, Metals	
Hazardous Decomp	position Pro	oducts None under normal u	se conditions			
Hazardous Polyme	rization	Hazardous polymeriz	ation does not	occur.		
Hazardous Reactions None under normal processing.						
		11. Toxicolo	ogical inf	ormation		
Acute Toxicity Product Informatio Component Inform						
Compone	nt	LD50 Oral		LD50 Dermal		Inhalation
Tin		> 2000 mg/kg (Rat)	>	2000 mg/kg (Rat)	LC50 > 4.7	5 mg/L (Rat)4 h
Toxicologically Syr Products Delayed and immed	-	No information availa		nd long-term expo	sure_	
Irritation		No information availa	ble			
Sensitization		No information availa	ble			
Carcinogenicity		The table below indic	ates whether e	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS N	Io IARC	NTP	ACGIH	OSHA	Mexico
Tin	7440-31		Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information availa				
Reproductive Effect	ts	No information availa	ble.			
Developmental Effe	ects	No information availa	ble.			
Teratogenicity		No information availa	ble.			

STOT - single exposure STOT - repeated exposure

Aspiration hazard No information available

None known None known

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. Tumorigenic effects have been reported in experimental animals.

12. Ecological information

Ecotoxicity

Persistence and Degradability	Insoluble in water		
Bioaccumulation/ Accumulation No 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		

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

national hazardous waste regulations to ensure complete and accurate classification.

United States of America Inventory

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

Legend:

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

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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	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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate

classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Tin	7440-31-5	-	Use restricted. See item 75. (see link for restriction details)	-

Not applicable

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	7440-31-5	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

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)
Tin	7440-31-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	27-Jan-2011 26-Mar-2024 26-Mar-2024 New emergency telephone response service provider.

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