

SAFETY DATA SHEET

Creation Date 27-Jan-2011

Revision Date 26-Mar-2024

Revision Number 3

	1. Identification	
Product Name	Tin foil	
Cat No. :	44154	
CAS No Synonyms	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

<u>Company</u>

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. Composition/Information on Ingredients					
Component		C	AS No	Weight %	
Tin		74	40-31-5	>95	
	4.	First-aid m	neasures		
Eye Contact	re Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				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 med	ical attention im	nmediately 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 reason	ably foreseeable.			
Notes to Physician	Treat sympto	matically			
	5. Fi	re-fighting	measure	2S	
Suitable Extinguishing Media	Use extinguis surrounding e		hat are appropi	riate to local circumstances and the	
Unsuitable Extinguishing Media	No informatio	n available			
Flash Point Method -	No information No information				
Autoignition Temperature Explosion Limits	No informatio	n available			
Upper	No data avail				
Lower	No data avail				
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No informatio				
Specific Hazards Arising from the C Keep product and empty container awa		nd sources of igr	nition.		
Hazardous Combustion Products None known.	no for Eircfir	htoro			

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 0	Flammability 0	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment as required. See Section 12 for additional 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	Solid		
Appearance	Silver		
Odor	Odorless		
Odor Threshold	No inform	ation ava	ailable
рН	Not applic	able	
Melting Point/Range	231.9 °C	/ 449.4	↓ °F
Boiling Point/Range	2270 °C	/ 4118	°F @ 760 mmHg
Flash Point	No inform	ation ava	ailable
Evaporation Rate	Not applic	able	
Flammability (solid,gas)	No inform	ation ava	ailable
Flammability or explosive limits			
Upper	No data a	vailable	
Lower	No data a	vailable	
Vapor Pressure	1 mmHg	@ 1492	°C
Vapor Density	Not applic	able	
Specific Gravity	No inform	ation ava	ailable
Solubility	Insoluble	in water	
Partition coefficient; n-octanol/water	No data a	vailable	
Autoignition Temperature	No inform	ation ava	ailable
Decomposition Temperature	No inform	ation ava	ailable

Viscosity Molecular Formula Molecular Weight	Not applicable 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	Acids, Strong oxidizing agents, Strong bases, Halogens, Metals		
Hazardous Decomposition Product	s None under normal use conditions		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Tin foil

Product Information

Component Informa	ation					
Componer	nt 🛛	LD50 Oral		LD50 Dermal	LC50 I	nhalation
Tin		> 2000 mg/kg (Rat) > 2	000 mg/kg (Rat)	LC50 > 4.75	mg/L(Rat)4 h
L Toxicologically Syn	ogically Synergistic No information available					
Products	ergistic	No information ave				
Delayed and immed	liate effects as w	vell as chronic effe	cts from short an	d long-term expo	sure	
Irritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed 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 ava	ailable			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated ex						
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	,both acute and	No information available				
Endocrine Disrupto	r Information	n No information available				
Other Adverse Effe	cts	The toxicological properties have not been fully investigated. Tumorigenic effects have been reported in experimental animals.				effects have

	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

Cor	nponent	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
Γ	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.

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California Proposition 65
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This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component			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

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	5	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)	-

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)
Γ	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