

SAFETY DATA SHEET

Creation Date 27-Jan-2011

Revision Date 26-Mar-2024

Revision Number 3

| | 1. Identification | |
|---|---|--|
| Product Name | Tin slug | |
| Cat No. : | 41169 | |
| 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

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. Cc | mpositio | on/Information or | n Ingredi | ents | | |
|---|---|---|-----------------|---|--|--|
| Component | | CAS No | | Weight % | | |
| Tin | 7440-31-5 | | >95 | | | |
| | 4. | First-aid measure | es | | | |
| Eye Contact | Rinse immeo medical atter | | also under the | e eyelids, for at least 15 minutes. Get | | |
| Skin Contact | | nediately with plenty of wate if symptoms occur. | er for at least | 15 minutes. Get medical attention | | |
| nhalation | Remove to fr | esh air. Get medical attentic | on immediate | ly if symptoms occur. | | |
| ngestion | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. | | | | | |
| Most important symptoms and | None reasonably foreseeable. | | | | | |
| effects Notes to Physician | Treat symptomatically | | | | | |
| | 5. Fi | re-fighting measu | ures | | | |
| Suitable Extinguishing Media | Use extinguis | shing measures that are app environment. | propriate to lo | cal circumstances and the | | |
| Jnsuitable Extinguishing Media | No information | on available | | | | |
| Flash Point Method - | No information No information | | | | | |
| Autoignition Temperature Explosion Limits | No information | on available | | | | |
| Upper | No data avai | able | | | | |
| Lower No data available | | | | | | |
| Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available | | | | | | |
| Specific Hazards Arising from the C Keep product and empty container awa | | 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 0 | Flammability 0 | Instability 0 | Physical hazards N/A | | | |
|---|-------------------|-------------------------|-------------------------|--|--|--|
| | 6. Accidental rel | lease measures | | | | |
| Personal Precautions Environmental Precautions | | | | | | |

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 |
| | | | |

| | | | | | Revision | | |
|--|---|--|----------------------------|--------------------|-------------|--------------|--|
| Viscosity Molecular Formula Molecular Weight | | | Not applic Sn 118.69 | able | | | |
| | | 10. Stab | ility and rea | activity | | | |
| Reactive Hazard | | None known, base | ed on information a | available | | | |
| Stability | | Stable under norm | al conditions. | | | | |
| Conditions to Avoid | ł | Incompatible produ | ucts. | | | | |
| Incompatible Mater | ials | Acids, Strong oxid | izing agents, Stro | ng bases, Halogens | , Metals | | |
| Hazardous Decomp | osition Prod | ducts None under norma | al use conditions | | | | |
| Hazardous Polymer | ization | Hazardous polyme | erization does not | occur. | | | |
| Hazardous Reaction | Hazardous Reactions None under normal processing. | | | | | | |
| | | 11. Toxico | ological inf | ormation | | | |
| Acute Toxicity | | | | | | | |
| Product Information Component Information | | | | | | | |
| Componer | nt | LD50 Oral | | LD50 Dermal | | Inhalation | |
| Tin | | > 2000 mg/kg (Rat |) >2 | 2000 mg/kg (Rat) | LC50 > 4.75 | mg/L(Rat)4 h | |
| Toxicologically Syn Products | ergistic | No information ava | ailable | | | | |
| | liate effects | as well as chronic effe | cts from short a | nd long-term expos | sure | | |
| Irritation | | No information ava | ailable | | | | |
| Sensitization | | No information available | | | | | |
| Carcinogenicity | | The table below indicates whether each agency has listed any ingredient as a carcinogen. | | | | | |
| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico | |
| Tin | 7440-31- | | Not listed | Not listed | Not listed | Not listed | |
| Mutagenic Effects | | No information ava | ailable | | | | |
| Reproductive Effect | ts | No information available. | | | | | |

- No information available. **Developmental Effects**
- No information available. Teratogenicity
- STOT single exposure None known STOT - repeated exposure None known
- No information available Aspiration hazard
- 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 | Not regulated | | | |
| DOT TDG IATA | 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

Not applicable

| 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) | |

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