

SAFETY DATA SHEET

Creation Date 27-January-2011 Revision Date 26-March-2024 Revision Number 3

1. Identification

Product Name Tin foil

Cat No.: 38538

CAS-No 7440-31-5 Synonyms Metallic Tin

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Importer/Distributor

Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6,

Canada

Tel: 1-800-234-7437

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

Classification

WHMIS 2015 Classification Not classified under the Hazardous Products Regulations (SOR/2015-17)

Based on available data, the classification criteria are not met

Label Elements

None required

Hazard Statements

Precautionary Statements

| 3. Composition/Information on Ingredients | |
|---|--|
| 3. Combosition/information on maleuris | |

| Component | CAS-No | Weight % |
|-----------|--------|-----------|
| Component | OAO NO | Weight /0 |

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Tin 7440-31-5 >95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

No information available

Unsuitable Extinguishing Media No information available

Flash Point Method -No information available

No information available

Autoignition Temperature

Explosion Limits

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and 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

HealthFlammabilityInstabilityPhysical hazards00N/A

Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions 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.

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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

| Ī | Component | Alberta | British | Ontario TWAEV | Quebec | ACGIH TLV | OSHA PEL | NIOSH |
|---|-----------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------------|------------------------------------|
| | _ | | Columbia | | | | | |
| Ī | Tin | TWA: 2 mg/m ³ | (Vacated) TWA: 2 mg/m ³ | IDLH: 100 mg/m³ TWA: 2 mg/m³ |

Legend

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 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.

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | Glove comments |
|----------------|-------------------|-----------------|------------------------|
| Natural rubber | See manufacturers | - | Splash protection only |
| Nitrile rubber | recommendations | | , , |
| Neoprene | | | |
| PVC | | | |

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

9. Physical and chemical properties

Physical StateSolidAppearanceSilverOdorOdorless

Odor Threshold No information available

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Melting Point/Range

pН Not applicable

231.9 °C / 449.4 °F

2270 °C / 4118 °F @ 760 mmHa **Boiling Point/Range**

Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available Lower No data available **Vapor Pressure** 1 mmHg @ 1492 °C **Vapor Density** Not applicable

Specific Gravity No information available Solubility Insoluble in water Partition coefficient; n-octanol/water No data available

Autoignition Temperature No information available No information available

Decomposition Temperature Not applicable

Viscosity

Molecular Formula Sn 118.69 **Molecular Weight**

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stable under normal conditions. Stability

Conditions to Avoid Incompatible products.

Acids, Strong oxidizing agents, Strong bases, Halogens, Metals **Incompatible Materials**

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

Product Information

Component Information

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----------|----------------------|--------------------|----------------------------|
| Tin | > 2000 mg/kg (Rat) | > 2000 mg/kg (Rat) | LC50 > 4.75 mg/L (Rat) 4 h |

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available Sensitization No information available

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

| Component | CAS-No | IARC | NTP | ACGIH | OSHA | Mexico |
|-----------|-----------|------------|------------|------------|------------|------------|
| Tin | 7440-31-5 | Not listed |

No information available **Mutagenic Effects**

Reproductive Effects No information available.

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Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure 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. Tumorigenic effects have

been reported in experimental animals.

12. Ecological information

Ecotoxicity

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Is not likely mobile in the environment due its low water solubility. Mobility

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.

Not regulated DOT Not regulated TDG Not regulated IATA IMDG/IMO Not regulated

15. Regulatory information

International Inventories

| Component | CAS-No | DSL | NDSL | TSCA | TSCA Inventory notification - Active-Inactive | EINECS | ELINCS | NLP |
|-----------|-----------|-----|------|------|---|-----------|--------|-----|
| Tin | 7440-31-5 | X | ı | X | ACTIVE | 231-141-8 | - | ı |

| Component | CAS-No | IECSC | KECL | ENCS | ISHL | TCSI | AICS | NZIoC | PICCS |
|-----------|-----------|-------|----------|------|------|------|------|-------|-------|
| Tin | 7440-31-5 | X | KE-33838 | Х | - | Х | Х | Х | X |

X - Listed '-' - Not Listed

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

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PICCS - Philippines Inventory of Chemicals and Chemical Substances

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Other International Regulations

Authorisation/Restrictions according to EU REACH

Not applicable

| ſ | Component | | REACH (1907/2006) - Annex XVII - | |
|---|-----------|-----------------------|------------------------------------|-----------------------------------|
| - | | Substances Subject to | Restrictions on Certain Dangerous | 1907/2006) article 59 - Candidate |
| - | | Authorization | Substances | List of Substances of Very High |
| L | | | | Concern (SVHC) |
| Ī | Tin | - | Use restricted. See item 75. | - |
| L | | | (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) |
|---|-----------|-----------|----------|---------------------------------|------------------------------|--|
| L | Tin | 7440-31-5 | Listed | Not applicable | Not applicable | Not applicable |

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

16. Other information

Prepared By Product Safety Department

Email: chem.techinfo@thermofisher.com

www.thermofisher.com

Creation Date27-January-2011Revision Date26-March-2024Print Date26-March-2024

Revision Summary New emergency telephone response service provider.

Disclaimer

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End of SDS