



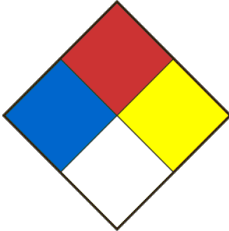
Centre Anti-Poison pour le Québec: (800) 463-5060  
 Tél. (Qc): (418) 660-8666 / 800-890-8666  
 Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier TIN (GRANULDES)		Product Use Laboratory use	
Chemical formula -		Product code ER-0145	Molar weight 118,69
Chemical name / Commercial name / Synonymous TIN, TIN MOSSY			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
City Québec		Province Québec	
Postal code G1C 7B7	Internet www.labmat.com	Phone number 418-660-8666 / 800-890-8666	
Emergency phone	CANUTEC: 613-996-6666	CENTRE ANTI-POISON DU QUÉBEC 800-463-5060	
Date SDS 8/16/2021	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

### SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	Not a hazardous substance according to WHMIS 2015
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<b>Health</b> 1 <b>Fire</b> 0 <b>Reactivity</b> 0 <b>Special danger</b>

### SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Étain	7440-31-5	<=100

### SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Skin, eye and respiratory system irritation. Diarrhea. Vomiting. Abdominal pain. Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Flammability</b>	No
<b>Ignition conditions</b>	Fine dust in sufficient concentration may be combustible, or explode if confined to a small space and subject to a source of ignition.
<b>Suitable extinguishing media</b>	Use a Class D fire extinguisher or special powder for metal fires.
<b>Unsuitable extinguishing media</b>	Do not use water.
<b>Hazardous combustion products</b>	Hazardous combustion products formed under fire conditions: - Tin/tin oxides.
<b>Special fire and explosion hazards</b>	May react violently with incompatible products (Ref Section 10). In contact with acids, releases hydrogen: a flammable gas.
<b>Special protective equipment and precautions for firefighters</b>	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

<b>Methods and materials for containment and cleaning up / Personal precautions, protective equipment</b>	Evacuate personnel to safe areas. Cut off all sources of ignition. Pick up with a broom, taking care not to scatter dust. Dispose of residues in a container provided for the disposal of hazardous materials. When handling, wear appropriate safety equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Do not let product enter drains.
---	---

## SECTION 07 - HANDLING AND STORAGE

<b>Conditions for safe storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep container tightly closed and store away from moisture and incompatible products.
<b>Methods of handling</b>	Provide appropriate exhaust ventilation at places where dust or vapor is formed. Always open containers slowly to allow any excess pressure to vent. Avoid ingestion and inhalation. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

Components	CAS-No.	Control parameters	Value	Basis
Tin	7440-31-5	TWA	2 mg/m <sup>3</sup>	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	2mg/m <sup>3</sup>	Canada. British Columbia OEL
		TWAEV	2mg/m <sup>3</sup>	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	2mg/m <sup>3</sup>	Canada. Ontario OELs

<b>Data source</b>	Fisher Scientific
<b>Ventilation</b>	Proper ventilation or hood.
<b>Respiratory</b>	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
<b>Gloves</b>	Handle with gloves.
<b>Eyes</b>	Safety goggles with safety shutters.
<b>Shoes</b>	Safety shoes.
<b>Clothing</b>	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Engineering control</b>	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid.
Appearance	Granules de couleur argent.
Odour	Inodore.
Odour threshold	Data not available
pH	Non applicable.
Melting point / Freezing point	231.9°C
Initial boiling point	2270°C
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	1.0 mm @ 1492°CmmHg
Vapour density	Data not available
Relative density	7.31g/cm <sup>3</sup>
Solubility	Insoluble dans l'eau. Soluble dans les acides.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Reducing product, may react violently with oxidizing agents.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	May form combustible dust concentrations in the air. May react violently with incompatible substances.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Avoid exposure to acid. Avoid contact with incompatible materials.
Incompatible material	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates, potassium permanganate), acids and bases, halogens, sulfur, chlorine, turpentine, air and humidity.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Tin/tin oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### TIN (GRANULDES)

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation.
- Skin	Irritation.
- Inhalation	Inhalation of high concentrations of tin dust or its fumes (in the form of tin dioxide) can cause a benign pneumoconiosis: stannosis.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Gastrointestinal disorders, cramps, diarrhea, headache, dizziness, salivation, convulsions, nausea and vomiting.
Chronic exposure effects / symptoms	Burning sensation and irritation. May cause skin sensitization.
DL50 (specify species and route of entry)	LD50 Oral - rat - 2,000 mg / kg LD50 Dermal - Rat - 2000mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 4.75 mg/L.

## SECTION 12 - ECOLOGICAL INFORMATION

Available ecological information	No
----------------------------------	----

## SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

## SECTION 14 - TRANSPORT INFORMATION

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

## SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Not a hazardous substance according to WHMIS 2015
--------------	---

## SECTION 16 - OTHER INFORMATION

### Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Last Update: 8/16/2021