

STANNOUS OXIDE
MATERIAL SAFETY DATA SHEET

INTEGRA Chemical Company
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

MSDS Number: S759
Revision Date: 16-Apr-08
Revision No.: 003

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Product Identification

Product Name: STANNOUS OXIDE
Synonyms: Tin (II) oxide
Chemical Formula: SnO
Formula Weight: 134.69
Chemical Family: Metal oxide
Integra Product Numbers: S759.10

Hazard Overview

HMIS Rating: 1-0-0-E NFPA Rating: NE
Warning Label:

Caution.

Causes irritation. Harmful if swallowed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Components

<u>Component</u>	<u>CAS #</u>	<u>%</u>
Stannous oxide	21651-19-4	100

Physical Data

<u>Boiling Point:</u>	NA	<u>Specific Gravity:</u>	NA
<u>Melting Point:</u>	NA	<u>Evaporation Rate:</u>	NA
<u>Vapor Pressure:</u>	NA	<u>Vapor Density:</u>	NA Air = 1

Solubility:

Insoluble in water.

Appearance and Odor:

Grey powder

Fire and Explosion Data

Flash Point: NA Test Method:
Auto-ignition Temperature: NA
Flammable Limits (% by volume in air): Upper: NA Lower: NA

Fire Extinguishing Media:

Material is not flammable. Use extinguishing media suitable to surrounding materials.

Special Firefighting Procedures:

Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Unusual Fire and Explosion Hazards:

Fire conditions may liberate toxic and noxious fumes.

Health Hazard Information

Effects of Overexposure

Skin Contact:

Contact may cause skin irritation.

Eye Contact:

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Health Hazard Information

Eye Contact:

Contact may be irritating to the eyes.

Ingestion:

May cause gastrointestinal upset with symptoms of abdominal pain, vomiting and diarrhea.

Inhalation:

Inhalation may irritate the nose, throat and upper respiratory tract.

Chronic Effects of Overexposure:

Prolonged or excessive inhalation of dusts may cause pneumoconiosis.

Exposure Limits:

	<u>TWA</u>	<u>OSHA PEL</u> <u>STEL</u>	<u>Ceiling</u>
Stannous oxide	NE	NE	NE
	<u>TWA</u>	<u>ACGIH TLV</u> <u>STEL</u>	<u>Ceiling</u>
Stannous oxide	(as Sn) 2 mg/m3	NE	NE

Toxicity Data:

Stannous oxide No information available.

Medical Conditions Generally Aggravated by Exposure:

Respiratory conditions.

Target Organs:

None Identified

Reproductive Effects:

None Identified

Carcinogenicity:

None Identified

<u>Component</u>	<u>NTP Listing</u>	<u>IARC Listing</u>	<u>OSHA Regulated</u>
Stannous oxide	No listing	No listing	<input type="checkbox"/>

Emergency First Aid Procedures

Skin Contact:

Wash with soap and water. Seek medical attention if irritation develops.

Eye Contact:

Flush eyes with water. If irritation persists, seek medical attention.

Inhalation:

Remove to fresh air.

Ingestion:

If conscious, give victim large amounts of water. Seek medical attention.

Additional First aid and Treatment Notes:

No information available

Reactivity Data

Stability: Stable

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Reactivity Data

Hazardous Polymerization: Will Not Occur

Incompatibles:

Incompatible with strong acids and strong oxidizers.

Decomposition Products:

None identified

Conditions to Avoid:

Exposure to air.

Spill and Disposal Procedures

Spill and Leak Procedures:

Prevent spread of spill. Sweep or scoop into disposal container. Flush residues with water. Wear suitable protective equipment.

Disposal Procedures:

Dispose in accordance with all Local, State and Federal regulations.

Protective Equipment

Ventilation:

Use general or local exhaust ventilation to meet TLV and PEL requirements.

Respiratory Protection:

None required where adequate ventilation conditions exist. If airborne concentration exceeds PEL or TLV a dust/mist respirator is recommended.

Skin and Eye Protective Equipment:

Safety goggles, protective clothing and gloves. Maintain an eyewash station and safety shower nearby. Rubber gloves are recommended.

Storage and Handling Precautions

Storage Area: GENERAL

Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Protect containers from physical damage.

Transportation Information

Regulated Material domestic ground transportation

(reference: CFR Title 49, Transportation)

Proper Shipping Name:

UN or NA Identification number:

Packing Group:

Hazard Class and Label:

Subsidiary Risk and Label:

Regulated Material via Air Transportation

(reference: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air)

Proper Shipping Name:

UN Identification Number:

Packing Group:

Hazard Class and Label:

Subsidiary Risk and Label:

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Transportation Information

Packing Instruction Max net qty per package

Passenger Aircraft:
 Cargo Aircraft:

Regulatory Information

<u>Component</u>	<u>TSCA</u> <u>Inventory</u>	<u>CERCLA</u> <u>RQ</u>	<u>SARA EHS</u> <u>TPQ</u>	<u>SARA 313 Toxic Release</u> <u>de minimus</u>
Stannous oxide	<input checked="" type="checkbox"/>	lbs	<input type="checkbox"/>	lbs
<u>SARA Hazard Categories:</u>	<u>Acute</u>	<u>Chronic</u>	<u>Flammability</u>	<u>Pressure</u>
Stannous oxide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Clean Air Act Categories:</u>	<u>SOCMI</u>	<u>HAP</u>	<u>Volatile HAP</u>	<u>Organic HAP</u>
Stannous oxide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MSDS Revision History:

- 002 - Format revisions; updated header phone number
- 003 - Updated Header Information

NE = Not established, NA = Not applicable or Not available

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***** END OF MSDS *****