Material Safety Data Sheet

Section 1 – Product and Company Identification

Product Name	Stannous oxide
Chemical Name	Tin(II) oxide
Chemical Formula	SnO
Company Identification	Showa Kako Corporation
	18-23, Yoshino-cho, Suita-city, Osaka 564-0054
	JAPAN
Telephone Number	+81-6-6384-1501
24-hour Emergency	+81-6-6384-1501
Telephone Number	
Fax Number	+81-6-6384-2287

Section 2 – Hazards Information

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GHS Classification		
Physical Hazards	Not classified	
Health Hazards		
Specific target	Category 3 (Respiratory tract irritation)	
organs/systemic toxicity		
following single exposure		
Specific target	Category 1 (Lungs by Tin)	
organs/systemic toxicity		
following repeated		
exposure		
Environmental Hazards	Not classified	
GHS Symbol		
Signal Word	Danger	
Hazard Statements		
H335	May cause respiratory irritation	
H372	Causes damage to organs through prolonged or	
	repeated exposure	
Precautionary Statements		
P264	Wash hand and face, etc. thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	

P260	Do not breathe dust/fume/gas/mist/vapors/spray	
P270	Do not eat, drink or smoke when using this product.	
Response Statements		
P312	Call a POISON CENTER or doctor/physician if you feel	
	unwell.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest	
	in a position comfortable for breathing	
P314	Get medical advice/ attention if you feel unwell.	
Storage Statements		
P403+P233	Store in a well-ventilated place. Keep container tightly	
	closed.	
P405	Store locked up.	
Disposal Statements		
P501	Dispose of contents/ container through a waste	
	management company authorized by the local	
	government.	

Section 3 – Composition and Information on Ingredients

Substance/Mixture	Substance
Chemical Name	Stannous oxide
CAS #	21651-19-4
Percent	92.0% min.

Section 4 – First Aid Measures

Eyes	Immediately flush eyes with copious amounts of water for at least
	15 minutes, occasionally lifting the upper and lower eyelids.
	Consult with ophthalmologist.
Skin	Immediately flush skin with copious amounts of water for at least
	15 minutes.
Ingestion	Wash out mouth with water. Induce vomiting. Call a physician.
Inhalation	Remove to fresh air. If not breathing give artificial respiration. If
	breathing is difficult, give oxygen. Call a physician if necessary.

Section 5 – Fire Fighting Measures

Flash Point		No data found
Autoignition		None
Explosion Limits	Lower	No data found
	Upper	No data found
Extinguish Media		Water, powder, carbon dioxide, foam

Firefighting Instructions	Avoid non-firefighting equipped personnel to enter.
	Extinguish upwind from the fire wearing appropriate
	protective gear.

Section 6 – Accidental Release Measures

Spills/ Leaks	Evacuate area. Wear self-contained breathing apparatus, rubber
	boots and heavy rubber gloves. Sweep up, place in a bag and hold
	for waste disposal. Avoid raising dust. Ventilator area and wash
	spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling	Wear appropriate protective gear. Do not contact with eyes, skin
	and on clothing. Do not inhale. Handle with care. Wash mouth and
	hand after handling the material.
Storage	The product is so easy to be oxidized by oxygen, water, moisture,
	etc. to perform vacuum. Keep container tightly closed. Avoid such
	conditions as direct sunlight, high temperature, high humidity and
	high piling. Store indoor.

Section 8 – Exposure Controls, Personal Protection

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Facilities storing or utilizing the material should be equipped with	
an eye wash facilities and a safety shower. Use adequate	
ventilation to keep airborne concentrations low.	
No data found	
Personal Protective Equipment	
Safety goggles	
Rubber gloves	
Protective clothing and rubber boots	
Anti-dust mask	

Section 9 – Physical and Chemical Properties

Physical State	Crystalline powder
Appearance	Black
Odor	Odorless
Boiling Point	No data found
Melting Point	No data found
Flash Point	No data found
Autoignition	None
Explosibility	None

Vapor Pressure	No data found	
Vapor Density	No data found	
Solubility	Insoluble in water. Easily soluble in Hydrochloric acid, soluble in	
	dilute sulfuric acid	

Section 10 – Stability and Reactivity

Stability	Stable
Conditions to avoid	Direct sunlight, high temperature, high
	humidity and high piling
Incompatibilities with Other Material	No data found
Hazardous Decomposition Product	No data found
Hazardous Polymerization	Will not occur

Section 11 – Toxicological information

RTECS #	No data found
LD50/ LC50	No data found
Carcinogenicity	No data found
Mutagenicity	No data found
Reproductive Effects	No data found
Teratogenicity	No data found
Immunology	No data found
Irritation	No data found

Section 12 – Ecological Information

Ecotoxicity	No data found
Environmental Standard	No data found

Section 13 – Disposal Consideration

Disposal Method	Federal (national), state or local laws and regulations
	will determine the proper waste disposal method.
Regulation Method	Federal (national), state or local laws and regulations

Section 14 – Transport Information

Shipping Name	Not applicable
Hazard Class	Not applicable
UN #	Not applicable
Packing Group	Not applicable

Section 15 – Regulatory Information

United States	TSCA	No data found
EC	EINECS	No data found
Canada	WHMIS	No data found
Japan	PRTR law	Not on the list

Section 16 – Other Information

MSDS Creation Date	March 29, 2012
Revised Date	April 12, 2013
Revised No.	Revised 2nd

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