

## Material Safety Data Sheet

### Section 1 – Product and Company Identification

<b>Product Name</b>	Sodium stannate No.3
<b>Chemical Name</b>	Sodium stannate
<b>Chemical Formula</b>	Na <sub>2</sub> SnO <sub>3</sub> ·3H <sub>2</sub> O
<b>Company Identification</b>	Showa Kako Corporation 18-23, Yoshino-cho, Suita-city, Osaka 564-0054 JAPAN
<b>Telephone Number</b>	+81-6-6384-1501
<b>24-hour Emergency Telephone Number</b>	+81-6-6384-1501
<b>Fax Number</b>	+81-6-6384-2287

### Section 2 – Hazards Information

<b>Toxicological Information</b>	Irritation to skin and mucous membrane, may cause inflammation.
<b>GHS Classification</b>	Not classified

### Section 3 – Composition and Information on Ingredients

<b>Substance/Mixture</b>	Substance
<b>Chemical Name</b>	Sodium stannate
<b>CAS #</b>	12209-98-2
<b>Percent</b>	83-87% min.

### Section 4 – First Aid Measures

<b>Eyes</b>	Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult with ophthalmologist.
<b>Skin</b>	Immediately flush skin with copious amounts of water for at least 15 minutes.
<b>Ingestion</b>	Wash out mouth with water. Induce vomiting. Call a physician.
<b>Inhalation</b>	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

<b>Flash Point</b>	No data found
<b>Autoignition</b>	None
<b>Explosion Limits</b>	<b>Lower</b> No data found

	<b>Upper</b>	No data found
<b>Extinguish Media</b>		Water, powder, carbon dioxide, foam
<b>Firefighting Instructions</b>		Avoid non-firefighting equipped personnel to enter. Extinguish upwind from the fire wearing appropriate protective gear.

### Section 6 – Accidental Release Measures

<b>Spills/ Leaks</b>	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

<b>Handling</b>	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.
<b>Storage</b>	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

<b>Engineering Controls</b>	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.
<b>Exposure Limits</b>	No data found
<b>Personal Protective Equipment</b>	
<b>Eyes</b>	Safety goggles
<b>Skin</b>	Rubber gloves
<b>Clothing</b>	Protective clothing and rubber boots
<b>Respirators</b>	Anti-dust mask

### Section 9 – Physical and Chemical Properties

<b>Physical State</b>	Crystalline powder
<b>Appearance</b>	White
<b>Odor</b>	Odorless
<b>Boiling Point</b>	No data found
<b>Melting Point</b>	No data found
<b>Flash Point</b>	No data found
<b>Autoignition</b>	None
<b>Explosibility</b>	None

<b>Vapor Pressure</b>	No data found
<b>Vapor Density</b>	No data found
<b>Solubility</b>	Soluble in water
	Insoluble in alcohol and acetone
<b>Molecular Weight</b>	266.73

### Section 10 – Stability and Reactivity

<b>Stability</b>	Deliquescent (loses 3 molecules of crystal water at 140°C when heated)
<b>Conditions to avoid</b>	Direct sunlight, high temperature, high humidity and high piling
<b>Incompatibilities with Other Material</b>	No data found
<b>Hazardous Decomposition Product</b>	No data found
<b>Hazardous Polymerization</b>	Will not occur

### Section 11 – Toxicological information

<b>RTECS #</b>	No data found
<b>LD50/ LC50</b>	Oral-rat LD50: 3457 mg/ kg (as 100% Sodium Stannate)
<b>Carcinogenicity</b>	No data found
<b>Mutagenicity</b>	No data found
<b>Reproductive Effects</b>	No data found
<b>Teratogenicity</b>	No data found
<b>Immunology</b>	No data found
<b>Irritation</b>	May cause irritation to skin and mucous membrane.

### Section 12 – Ecological Information

<b>Ecotoxicity</b>	No data found
<b>Environmental Standard</b>	No data found

### Section 13 – Disposal Consideration

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

### Section 14 – Transport Information

<b>Shipping Name</b>	Not applicable
<b>Hazard Class</b>	Not applicable
<b>UN #</b>	Not applicable
<b>Packing Group</b>	Not applicable

### Section 15 – Regulatory Information

<b>United States</b>	<b>TSCA</b>	On the list
<b>EC</b>	<b>EINECS</b>	235-030-5
<b>Canada</b>	<b>WHMIS</b>	No data found
<b>Japan</b>	<b>PRTR law</b>	Not on the list

### Section 16 – Other Information

<b>MSDS Creation Date</b>	March 29, 2010
<b>Revised Date</b>	July 25, 2013
<b>Revised No.</b>	Revised 3rd

This information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Showa Kako be liable for any claims, losses, or damage of any third party or for lost profits or any special, incidental, consequential or exemplary damages, howsoever arising, even if Showa Kako has been advised of the possibility of such damages.