Material Safety Data Sheet

Product Name	Stannous Chloride Anhydrous
Chemical Name	Tin(II) Chloride Anhydrous
Chemical Formula	SnCl ₂
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 1 – Product and Company Identification

Section 2 – Hazards Information

Inhalation	Dust from the	e product, i	f present, may cause respiratory
	information for	ollowing ar	n excessive inhalation exposure.
Skin	May produce	May produce skin irritation.	
Eyes	May cause ey	e irritation	
Ingestion	Not expected	to present	t a significant ingestion hazards
	under anticipa	ated condi	tion of normal use.
GHS Classification			
Physical Hazards	Not classified		
Health Hazards			
Acute toxicity (oral)		Category 5	
Serious eye damage/ eye i	rritation	Category 2A-2B	
Specific target organs/ systemic		Category 3(Respiratory tract irritation)	
toxicity following single exposure			
Specific target organs/ systemic		Category	1(Lungs)
toxicity following repeated exposure			
Environmental Hazards			
Hazardous to the aquatic e	nvironment (acute)	Category 1
Hazardous to the aquatic environment (chron		chronic)	Category 1
GHS Symbol			
Signal Word		Danger	

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Hazard Statements	· · · · · · · · · · · · · · · · · · ·
H303	May be harmful if swallowed
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H372	Causes damage to organs through prolonged or
	repeated exposure (Lungs)
H400	Very toxic to aquatic life
Precautionary Statements	
Prevention Statements	
P264	Wash hand and face, etc. thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye
	protection/face protection.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
Response Statements	
P312	Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/ attention.
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.
P391	Collect spillage.
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	Tin(II) Chloride Anhydrous
CAS #	7772-99-8

Percent	98.5% min.

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	Flush skin with plenty of water for at least 15 minutes while
	removing contaminated clothing and shoes. Wash clothing before
	reuse. Consult with a physician if symptoms occur.
Ingestion	Immediately wash mouth with plenty of water and give 1 - 2
	cupfuls of milk or water if victim is conscious and alert. Consult
	with a physician.
Inhalation	Remove to fresh air, wash out nasal aperture and mouth with
	plenty of water. If breathing is difficult, give artificial respiration.
	If not breathing, give oxygen. Consult with a physician.

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. Provide adequate ventilation. 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. Do
	not contact with skin. Do not inhale. 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	Keep container tightly closed. Avoid such conditions as direct
	sunlight and high piling. Store in low-humid, low-temperature area.

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

Section 8 – Exposure Controls, Personal Protection

Section 9 – Physical and Chemical Properties

Physical State	Crystal
Appearance	White
Odor	Odorless
Boiling Point	652°C
Melting Point	246.8°C
Density	3.95 (specific gravity)
Flash Point	No data found
Autoignition	No data found
Explosibility	No data found
Vapor Pressure	No data found
Vapor Density	No data found
Solubility	Soluble in water. When dissolving with water, it is hydrolyzed,
	formed basic salt and the solution becomes turbid. Soluble in
	water containing hydrochloric acid and alcohol.
Molecular Weight	189.59

Section 10 – Stability and Reactivity

Stability	Deliquescent (Produce hydrogen chloride
	gas when burned)
Conditions to avoid	Direct sunlight, high temperature, high
	humidity and high piling
Incompatibilities with Other Material	Reacts violently with calcium carbide,
	ethylene oxide, hydrazine hydrate, nitrate
	and so on.
Hazardous Decomposition Product	Hydrogen chloride gas and tin/ tin oxides
	when burned.

Hazardous Polymerization Will not occur	
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Section	11 -	Toxicologica	l information
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No data found	
oral-rat LD50: 700 mg/kg	
oral-mouse LD50: 250 mg/kg	
No data found	
Sister Chromatid Exchange Hamster (Ovary): 25 mg/L	
DNA damage Intratesticular rat TDL ₀ : 15,167 µg/kg	
No data found	
No data found	
No data found	
May cause irritation to skin and mucous membrane	

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

Section 14 – Transport Information

Shipping Name	ipping Name CORROSIVE SOLID, N.O.S	
	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S	
Hazard Class	8	
UN #	1759	
	3260	
Packing Group	III	

Section 15 – Regulatory Information

United States	TSCA	On the list
EC	EINECS	231-868-0
	R Phrases	R22 Harmful if swallowed
		R34 Causes burns
	S Phrases	No data found
Canada	WHMIS	No data found
Japan	PRTR law	Not on the list

MSDS Creation Date	April 09, 2010
Revised Date	April 23, 2013
Revised No.	Revised 4th

Section 16 – Other Information

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