


Material Safety Data Sheet

Section 1 – Product and Company Identification

Product Name	Stannous Chloride Dihydrate
Chemical Name	Tin(II) Chloride Dihydrate
Chemical Formula	$\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$
Company Identification	Showa Kako Corporation 18-23, Yoshino-cho, Suita-city, Osaka 564-0054 JAPAN
Telephone Number	+81-6-6384-1501
24-hour Emergency Telephone Number	+81-6-6384-1501
Fax Number	+81-6-6384-2287

Section 2 – Hazards Information

Inhalation	Dust from the product, if present, may cause respiratory irritation following an excessive inhalation exposure.
Skin	May produce skin irritation.
Eyes	May cause eye irritation.
Ingestion	Not expected to present a significant ingestion hazards under anticipated condition of normal use.
GHS Classification	
Physical Hazards	Not classified
Health Hazards	
Acute toxicity (oral)	Category 5
Serious eye damage/ eye irritation	Category 2A
Specific target organs/ systemic toxicity following single exposure	Category 3(Respiratory tract irritation)
Specific target organs/ systemic toxicity following repeated exposure	Category 1(Lungs)
Environmental Hazards	Not classified
GHS Symbol	
Signal Word	Danger
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)
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.
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.
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 Dihydrate
CAS #	10025-69-1
Percent	97.0% min.

Section 4 – First Aid Measures

Eyes	Immediately flush eyes with copious amounts of water for at
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	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.
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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.

Section 8 – Exposure Controls, Personal Protection

Engineering	Facilities storing or utilizing the material should be equipped
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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 9 – Physical and Chemical Properties

Physical State	Crystal
Appearance	White
Odor	Odorless
Boiling Point	652°C
Melting Point	37.7°C (decomposes)
Density	2.71
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.

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

Section 11 – Toxicological information

RTECS #	No data found
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LD50/ LC50	IVN-rat LD50: 7,830 µg/ kg IVN-dog LD50: 20 mg/ kg
Carcinogenicity	No data found
Mutagenicity	DNA damage human (leukocyte): 10 µmol/L DNA damage hamster (ovary): 50 µmol/L
Reproductive Effects	No data found
Teratogenicity	No data found
Immunology	No data found
Irritation	Irritating to skin and mucous membrane, may cause inflammation.

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

Section 15 – Regulatory Information

United States	TSCA	No data found
EC	EINECS	Not on the list
	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

Section 16 – Other Information

MSDS Creation Date	February 26, 2010
Revised Date	April 22, 2013
Revised No.	Revised 5th

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