Material Safety Data Sheet

Section 1 – Product and Company Identification

Product Name	Stannic Chloride Anhydrate
Chemical Name	Tin(IV) Chloride Pentahydrate
Chemical Formula	SnCl ₄
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

Inhalation	Dust from the product, if present, may cause respiratory	
	information 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

Corrosive to metals	Category 1
COLLOSIVE to Illetais	Category 1

Health Hazards

Acute toxicity	Category 4
Skin corrosion	Category 1C
Serious eye damage/ eye irritation	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 2
Specific target organs/ systemic	Category 1(Respiratory system, Central
toxicity following single exposure	nervous systems)
	Category 3(Respiratory tract irritation,
	Narcotic effects)
Specific target organs/ systemic	Category 1(Liver, Central nervous

toxicity following repeated	exposure systems, Lungs)		
Environmental Hazards	especial cyclonic, emige,		
Hazardous to the aquatic e	nvironment Category 2		
(acute)	satisfier /		
Skin corrosion	Category 2		
GHS Symbol	• • • • • • • • • • • • • • • • • • •		
diis symbol			
Signal Word	Danger		
Hazard Statements			
H290	May be corrosive to metals		
H302	Harmful if swallowed		
H314	Causes severe skin burns and eye damage		
H318	Causes serious eye damage		
H341	Suspected of causing genetic defects		
H351	Suspected of causing cancer		
H370	Causes damage to organs (Respiratory system, Central		
	nervous systems)		
H335	May cause respiratory irritation		
H336	May cause drowsiness or dizziness		
H372	Causes damage to organs through prolonged or		
	repeated exposure (Liver, Central nervous systems,		
	Lungs)		
H401	Toxic to aquatic life		
H411	Toxic to aquatic life with long lasting effects		
Precautionary Statements			
P234	Keep only in original container.		
P264	Wash hand and face, etc. thoroughly after handling.		
P270	Do not eat, drink or smoke when using this product.		
P260	Do not breathe dust/fume/gas/mist/vapors/spray.		
P280	Wear protective gloves/protective clothing/eye		
	protection/face protection.		
P201	Obtain special instructions before use.		
P202	Do not handle until all safety precautions have been		
	read and understood.		
P281	Use personal protective equipment as required.		
P271	Use only outdoors or in a well-ventilated area.		
P273	Avoid release to the environment.		

Response Statements	,
P390	Absorb spillage to prevent material-damage.
P330	Rinse mouth.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all
	contaminated clothing. Rinse skin with water/shower.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest
	in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
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.
P406	Store in corrosive resistant/ container with a resistant
	inner liner.
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(IV) Chloride Anhydrate	
CAS #	7646-78-8	
Percent	99.5% 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	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.

Section 8 – Exposure Controls, Personal Protection

Engineering	Facilities storing or utilizing the material should be equipped with	
Controls	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	Liquid	
Appearance	Clear - Pale yellow	
Odor	Irritating odor	
Boiling Point	114°C	
Melting Point	-33°C	
Density	2.71	
Viscosity	No data found	
рН	No data found	
Flash Point	No data found	
Autoignition	No data found	
Explosibility	No data found	
Vapor Pressure	No data found	
Vapor Density	No data found	
Solubility	It dissolves while generating heat to water and it is hydrolyzed.	
	Soluble in alcohol and ether.	

Section 10 - Stability and Reactivity

It is smoking in air.
Water and steam
This product generates the hydrochloric
acid reacting with water or steam.
It hydrolyzes intensely when coming in
contact with the large quantity of water,
and the white smoke of the hydrogen
chloride and the smog of stannic oxide
are generated.
Hydrogen chloride, stannic oxide etc.
Will not occur

Section 11 – Toxicological information

RTECS #	No data found
LD50/ LC50	IPR-MUS LD50: 99 mg/ kg
	IPR-RAT LD50: 2300 mg/ m³/ kg
Carcinogenicity	No data found

Mutagenicity	No data found
Reproductive Effects	No data found
Teratogenicity	No data found
Immunology	No data found
Irritation	Causticity
Others	The nose, the throat, the airway, and lungs, etc. are strongly
	stimulated when inhaling, and it corrodes. The lung edema
	etc. might be caused.
	It has the burning sensation and pains such as mouths and
	throats when swallowing, mucous membranes such as the
	gullet and digestive organs are corroded, and it is likely to
	punch.

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 #	1827
Packing Group	III

Section 15 – Regulatory Information

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

Section 16 – Other Information

MSDS Creation Date	January 31, 2001
Revised Date	April 12, 2013
Revised No.	Revised 4th

Page: 6/7

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