

SAFETY DATA SHEET

Creation Date 26-Sep-2009

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name

Tin(IV) chloride pentahydrate

Cat No. :

AC223690000; AC223690050; AC223691000; AC223695000

CAS No Synonyms 10026-06-9 Stannic chloride pentahydrate

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 1 B Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

Other hazards

May cause pulmonary edema.

3. Composition/Information on Ingredients

Component		CAS No	Weight %		
Stannic chloride, pentahyd	rate	10026-06-9	> 98		
	4.	First-aid measures			
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minu Immediate medical attention is required.					
Skin ContactWash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.					
Inhalation Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxyge If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.					
Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately.					
Most important symptoms and effectsCauses burns by all exposure routes Product is a corrosive material. Use of gast lavage or emesis is contraindicated. Possible perforation of stomach or esophagus be investigated: Ingestion causes severe swelling, severe damage to the delicate tis					

Notes to Physician Treat symptomatically							
	5. Fire-fightin	g measures					
Suitable Extinguishing Media		chemical. Use extinguishing m surrounding environment. Ch	easures that are appropriate to emical foam.				
Jnsuitable Extinguishing Media No information available							
Flash PointNo information availableMethod -No information available							
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No information available No data available No data available t No information available No information available						
Specific Hazards Arising from the C Non-combustible.	hemical						
Heavy metal oxides. Hydrogen chlorid Protective Equipment and Precaution	NFPA						
	Flammability	Instability	Physical hazards				
3	Flammability 0	Instability 1	Physical hazards N/A				
3	-	1	-				
3 Personal Precautions Environmental Precautions	0 6. Accidental rel Ensure adequate ventilation personnel to safe areas. Av Avoid release to the environ	1 2 ase measures . Use personal protective equi bid dust formation. ment. Collect spillage. Do not uld not be released into the en	N/A pment as required. Evacuate				
Personal Precautions	0 6. Accidental rel Ensure adequate ventilation personnel to safe areas. Av Avoid release to the environ sanitary sewer system. Sho to contaminate ground wate	1 2 ase measures . Use personal protective equi- bid dust formation. ment. Collect spillage. Do not uld not be released into the en- r system.	N/A pment as required. Evacuate flush into surface water or vironment. Do not allow material				
Personal Precautions Environmental Precautions Methods for Containment and Clear	0 6. Accidental rel Ensure adequate ventilation personnel to safe areas. Av Avoid release to the environ sanitary sewer system. Sho to contaminate ground wate Sweep up and shovel into s	1 Case measures . Use personal protective equipid bid dust formation. ment. Collect spillage. Do not uld not be released into the en r system. uitable containers for disposal	N/A pment as required. Evacuate flush into surface water or vironment. Do not allow material				
Personal Precautions Environmental Precautions Methods for Containment and Clear	0 6. Accidental rel Ensure adequate ventilation personnel to safe areas. Av Avoid release to the enviror sanitary sewer system. Sho to contaminate ground wate Sweep up and shovel into s environment. 7. Handling a Do not breathe dust. Do not	1 Case measures . Use personal protective equi- bid dust formation. ment. Collect spillage. Do not uld not be released into the en- r system. uitable containers for disposal. Ind storage get in eyes, on skin, or on clo al assistance. Use only under	N/A pment as required. Evacuate flush into surface water or vironment. Do not allow material				
Personal Precautions Environmental Precautions Methods for Containment and Clear Up	0 6. Accidental relevant Ensure adequate ventilation personnel to safe areas. Av Avoid release to the environ sanitary sewer system. Sho to contaminate ground wate Sweep up and shovel into s environment. 7. Handling a Do not breathe dust. Do not then seek immediate medic dust generation and accument Keep in a dry, cool and well	1 Case measures . Use personal protective equi- bid dust formation. ment. Collect spillage. Do not uld not be released into the en- r system. uitable containers for disposal. Ind storage get in eyes, on skin, or on clo al assistance. Use only under ulation. -ventilated place. Keep contain	N/A pment as required. Evacuate flush into surface water or vironment. Do not allow material . Do not let this chemical enter the thing. Do not ingest. If swallowed a chemical fume hood. Minimize				

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Stannic chloride,	TWA: 2 mg/m ³	(Vacated) TWA: 2 mg/m ³	IDLH: 100 mg/m ³	TWA: 2 mg/m ³
pentahydrate	_	_	TWA: 2 mg/m ³	STEL: 4 mg/m ³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.				
Personal Protective Equipment					
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.				
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.				
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.				
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.				

9. Physical and chemical properties

Physical State	Powder Solid	
Appearance	White	
Odor	pungent	
Odor Threshold	No information available	
рН	2.0	
Melting Point/Range	56 °C / 132.8 °F	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	Not applicable	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	Not applicable	
Specific Gravity	2.2 (H2O=1)	
Solubility	Soluble	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Viscosity	Not applicable	
Molecular Formula	Cl4 Sn . 5 H2 O	
Molecular Weight	350.57	
-		

10. Stability and reactivity

Reactive Hazard	ard None known, based on information available				
Stability	Stable under normal conditions. Moisture sensitive.				
Conditions to Avoid	Incompatible products. Exposure to moist air or water. Avoid dust formation.				
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Metals				

Hazardous Decomposition Products Heavy metal oxides, Hydrogen chloride gas

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as v	No information available vell as chronic effects from short and long-term exposure
Irritation	Causes burns by all exposure routes
Sensitization	No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico				
Stannic chloride,	10026-06-9	Not listed	Not listed	Not listed	Not listed	Not listed				
pentahydrate		No information available								
Mutagenic Effects		No information ava	allable							
Reproductive Effect	ts	No information available.								
Developmental Effe	cts	No information available.								
Teratogenicity		No information ava	No information available.							
STOT - single expos	sure	Respiratory syster	n							
STOT - repeated ex	posure	None known								
Aspiration hazard		No information available								
Symptoms / effects delayed	nptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Ayed Possible perforation of stomach or esophagus should be investigated: Ingestion cau severe swelling, severe damage to the delicate tissue and danger of perforation									
Endocrine Disrupto	r Information	No information available								
Other Adverse Effe	cts	See actual entry in RTECS for complete information.								

12. Ecological information

Ecotoxicity

Do not empty into drains. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	May persist based on information available.			
Bioaccumulation/ Accumulation	No information available.			
Mobility	Will likely be mobile in the environment due to its water solubility.			
	13. Disposal considerations			

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN2440
Proper Shipping Name	STANNIC CHLORIDE PENTAHYDRATE
Hazard Class	8
Packing Group	III
<u>_TDG</u>	
UN-No	
Proper Shipping Name Hazard Class	STANNIC CHLORIDE PENTAHYDRATE
	o III
Packing Group IATA	III
UN-No	UN2440
Proper Shipping Name	STANNIC CHLORIDE PENTAHYDRATE
Hazard Class	8
Packing Group	
IMDG/IMO	
UN-No	UN2440
Proper Shipping Name	STANNIC CHLORIDE PENTAHYDRATE
Hazard Class	8
Packing Group	III
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Stannic chloride, pentahydrate	10026-06-9	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Stannic chloride, pentahydrate	10026-06-9	-	-	-	Х	Х	Х	Х	Х	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and	Not applicable

Health Administration

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Stannic chloride,	-	Х	-	-	-
pentahydrate					

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant	N N
DOT Severe Marine Pollutant	N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Stannic chloride, pentahydrate	10026-06-9	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Stannic chloride, pentahydrate	10026-06-9	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By	Regulatory Affairs	
	Thermo Fisher Scientific	
	Email: EMSDS.RA@thermofisher.com	
Creation Date	26-Sep-2009	
Revision Date	24-Dec-2021	
Print Date	24-Dec-2021	
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information

relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text