

Material Safety Data Sheet Tin(IV) chloride pentahydrate, 98+%

MSDS# 00318

	Section 1 - Chemical Product and	d Company Identification
MSDS Name:	Tin(IV) chloride pentahydrate, 98+%	
Catalog Numbers:	AC223690000, AC223690050, AC223691000	
Synonyms:	Stannic chloride pentahydrate; Tetrachlorostannane pentahydrate.	
Company Identification:		Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium
Company Identification: (USA)		Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US	, call:	800-ACROS-01
For information in Europe, call:		+32 14 57 52 11
Emergency Number, Europe:		+32 14 57 52 99
Emergency Number US:		201-796-7100
CHEMTREC Phone Number, US:		800-424-9300
CHEMTREC Phone Number, Europe:		703-527-3887

Section 2 - Composition, Information on Ingredients

Risk Phrases:	
CAS#:	10026-06-9
Chemical Name:	Stannic chloride pentahydrate
%:	> 98
EINECS#:	unlisted
Hazard Symbols:	

Text for R-phrases: see Section 16 Hazard Symbols:



Risk Phrases:

34 52/53

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Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. Target Organs: Eyes, skin, mucous membranes.

Potential Health Effects

- Eye: Contact with eyes may cause severe irritation, and possible eye burns.
- Skin: May cause severe skin irritation with possible burns, especially if skin is wet or moist.
- Ingestion: May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.
- Inhalation: Irritation may lead to chemical pneumonitis and pulmonary edema. May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation.

Chronic:	Chronic: Prolonged or repeated skin contact may cause dermatitis. Chronic exposure to tin oxide dusts and fumes may result in stannosis (benign pneumoconiosis).	
	Section 4 - First Aid Measures	
Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.	
Skin:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.	
Ingestion:	ngestion: If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.	
Inhalation:	If inhaled remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give ovyge	
Notes to Physician:		
	Section 5 - Fire Fighting Measures	
General Information	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Not combustible, but if involved in a fire, decomposes to produce hydrogen chloride.	
Extinguishi Media:	^{ng} Do NOT use water directly on fire. Use extinguishing media most appropriate for the surrounding fire.	
Autoignition Temperature: Not applicable.		
Flasl	n Point: Not applicable.	
Explosion Limits: Lower: Not available		
Explosion Limits: Upper: Vot available		
NFPA	Rating: health: 3; flammability: 0; instability: 1;	
	Section 6 - Accidental Release Measures	
General Information	Use proper personal protective equipment as indicated in Section 8.	
Spills/Leal	Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation. Use water spray to cool and disperse vapors and protect personnel.	
	Section 7 - Handling and Storage	
Handling: a	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only with adequate ventilation.	
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Corrosives area. Do not get water inside containers.		

Section 8 - Exposure Controls, Personal Protection

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Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
 Stannic chloride, a nhydrous 	<pre> 2 mg/m3 TWA (except Tin hydride, as Sn) (listed under Tin inorganic compounds). </pre>	<pre> 2 mg/m3 TWA (as Sn, except Tin oxide) (listed under Tin inorganic compounds).100 mg/m3 IDLH (as Sn, except Tin oxides) (listed under Tin inorganic</pre>	<pre> 2 mg/m3 TWA (as Sn, except oxides) (listed under Tin inorganic compounds). </pre>
I		compounds).	
Stannic chloride pe	2 mg/m3 TWA	2 mg/m3 TWA (as	2 mg/m3 TWA (as

hydri (lis Tin	pt Tin Sn, except Tin de, as Sn) oxide) (list ted under under Tin inorganic inorganic bounds). compounds).10 mg/m3 IDLH (as Sn, except Ti oxides) (list under Tin inorganic compounds).	ted oxides) (listed under Tin inorganic 00 compounds). 5 in
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OSHA Vacated PELs: Stannic chloride, anhydrous: 2 mg/m3 TWA (as Sn, except oxides) (listed under Tin inorganic compounds) Stannic chloride pentahydrate: 2 mg/m3 TWA (as Sn, except oxides) (listed under Tin inorganic compounds) Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: white to yellow

Odor: hydrochloric odor - slight odor

pH: Acidic in solution.

Vapor Pressure: 10 mm Hg @ 10 deg C

Vapor Density: Not available

Evaporation Rate: Not applicable.

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 56 deg C (132.80°F)

Decomposition Temperature: Not available

Solubility in water: Freely Soluble

Specific Gravity/Density: 2.2 (water=1)

Molecular Formula: SnCl4.5H2O

	Molecular Weight: 350.57
	Section 10 - Stability and Reactivity
Chemical Stability:	Stable under normal temperatures and pressures. May decompose on exposure to moist air or water.
Conditions to Avoid:	High temperatures, exposure to moist air or water.
Incompatibilities with Other Materials	Strong bases, alcohols, amines, ethylene oxide, potassium, sodium, alkyl nitrates, turpentine.
Hazardous Decomposition Products	Hydrogen chloride, tin/tin oxides.
Hazardous Polymerization	Has not been reported.

Section 11 - Toxicological Information

RTECS#:	CAS# 7646-78-8: XP8750000 CAS# 10026-06-9: XP8870000
	RTECS:
	CAS# 7646-78-8: Inhalation, rat: LC50 = 2300 mg/m3/10M;
LD50/LC50:	RTECS:
	CAS# 10026-06-9:.
Carcinogenicity:	Stannic chloride, anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Stannic chloride pentahydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information.
	Section 12 - Ecological Information
Not available	
	Section 13 - Disposal Considerations
Dispose of in a n	nanner consistent with federal, state, and local regulations.
	Section 14 - Transport Information
US DOT	
Shipping Name: ST Hazard Class: 8	FANNIC CHLORIDE, PENTAHYDRATE
UN Number: UN2	440
Packing Group: III	
Canada TDG	
Shipping Name: No	ot available
Hazard Class: UN Number:	
Packing Group:	
	Section 15 - Regulatory Information
European/Interna	ational Regulations
Europeen I	chaling in Assandance with EC Directives

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 34 Causes burns.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 7/8 Keep container tightly closed and dry.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 7646-78-8: 1

CAS# 10026-06-9: Not available

Canada

CAS# 7646-78-8 is listed on Canada's DSL List

Canadian WHMIS Classifications: E

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7646-78-8 is not listed on Canada's Ingredient Disclosure List.

CAS# 10026-06-9 is not listed on Canada's Ingredient Disclosure List.

TSCA

CAS# 7646-78-8 is listed on the TSCA Inventory.

CAS# 10026-06-9 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form in on the Inventory (40 CFR720.3(u)(2)).

Section 16 - Other Information MSDS Creation Date: 6/21/1999 Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
