SIGM	A-ALDRIC	Η	sigma-aldrich.con		
			FETY DATA SHEET Version 4.5 Revision Date 03/17/2015 Print Date 03/16/2016		
1. PRODL	JCT AND COMPANY	DENTIFICATION			
	oduct identifiers oduct name	Tin(II) chloride dihydrate			
Pro Bra	duct Number Ind	: 243523 : Sigma-Aldrich			
CA	S-No.	: 10025-69-1			
1.2 Rel	levant identified use	of the substance or mixture and uses advised against			
lde	ntified uses	: Laboratory chemicals, Manufacture of substances			
1.3 Dei	Details of the supplier of the safety data sheet				
Co	mpany	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA			
Tel Fax	ephone <	: +1 800-325-5832 : +1 800-325-5052			
1.4 Em	Emergency telephone number				
Em	ergency Phone #	: (314) 776-6555			

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Inhalation (Category 4), H332 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Skin sensitisation (Category 1), H317 Germ cell mutagenicity (Category 2), H341 Reproductive toxicity (Category 2), H361 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Specific target organ toxicity - repeated exposure, Oral (Category 2), Cardio-vascular system, H373 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger
Hazard statement(s)	
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332 H335 H341 Sigma-Aldrich - 243523	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.

Delivery 0853185390-000060 Purchase Order 115632

H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs (Cardio-vascular system) through
	prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing. Immediately
	call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Stannous chloridedihydrate
Formula	:	Cl ₂ Sn · 2H ₂ O
Molecular weight	:	225.65 g/mol
CAS-No.	:	10025-69-1
EC-No.	:	231-868-0

Hazardous components

Component		Classification	Concentration
Stannous chloride d	lihydrate		
		Acute Tox. 4; Skin Corr. 1B;	<= 100 %
		Eve Dam. 1; Skin Sens. 1;	
		Muta. 2; Repr. 2; STOT SE 3;	
		STOT RE 2; Aquatic Acute 1;	
		Aquatic Chronic 1; H314,	
		H317, H318, H332, H335,	
		H341, H361, H373, H410	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures 4.1

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Sigma-Aldrich - 243523 Delivery 0853185390-000060 Purchase Order 115632 Page 2 of 9

Page 1 of 9

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril@ (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

	9.1	Information on basic physical and chemical properties					
00		a)	Appearance	Form: Fine crystals and fragments Colour: white			
		b)	Odour	No data available			
		C)	Odour Threshold	No data available			
		d)	рН	No data available			
		e)	Melting point/freezing point	Melting point/range: 37 - 38 ℃ (99 - 100 °F) - dec.			
		f)	Initial boiling point and boiling range	652 ℃ (1,206 ℉) - lit.			
		g)	Flash point	No data available			
		h)	Evaporation rate	No data available			
		i)	Flammability (solid, gas)	No data available			
		j)	Upper/lower flammability or explosive limits	No data available			
		k)	Vapour pressure	No data available			
		I)	Vapour density	No data available			
		m)	Relative density	2.71 g/cm3			
		n)	Water solubility	soluble			
		o)	Partition coefficient: n- octanol/water	No data available			
		P)	Auto-ignition temperature	No data available			
00000609		q)	Decomposition temperature	No data available			
99	Sigma-Aldrich - 243523						

- r) Viscosity No data available s) Explosive properties No data available
- t) Oxidizing properties No data available
- ·, -----
- 9.2 Other safety information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity No data available

10.2 Chemical stability Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions
- No data available
- 10.4 Conditions to avoid Exposure to moisture may affect product quality. Exposure to air may affect product quality.
- 10.5 Incompatible materials Hydrogen peroxide, Strong bases, Strong oxidizing agents, Bromine trifluoride, Hydrazine, Ethylene oxide, Metals, organic nitrates
- 10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute toxicity No data available
- Inhalation: No data available
- Dermal: No data available

No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity In vitro tests showed mutagenic effects

Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Delivery 0853185390-000060 Purchase Order 115632

Page 5 of 9

Sigma-Aldrich • 243523 Delivery 0853185390-000060 Purchase Order 115632 Fire Hazard: 0 Reactivity Hazard: 0

Further information

Copyright 2015 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956 Version: 4.5

Revision Date: 03/17/2015 Print Date: 03/16/2016

Page 9 of 9