

SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

Product identifier			
Product name	Stannous Chloride Powder		
Product number	R-0602P; R-0602P-PL		
Recommended use and restrictions	To be used in accordance with manufacturer instructions or under the direct guidance of th manufacturer.		
Manufacturer	Taylor Technologies, Inc. 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340 Emergency phone: (800) 837-8548		
CTION 2: Hazard(s) iden	ntification		
Physical hazards	Not applicable		
Health hazards	Eye damage/irritation	Category 1	
	Germ cell mutagenicity	Category 2	
	Reproductive toxicity	Category 2	
	Sensitization, skin	Category 1	
	Skin corrosion/irritation	Category 1	
	Specific target organ toxicity, repeated exposure, oral	Category 2	
Environmental hazards	Not currently regulated by OSHA. For additional inform	nation, refer to section 12 of the SDS	
Signal word	Danger		
Hazard statements	Causes serious eye damage. Suspected of causing genetic defects. Suspected of damagin fertility or the unborn child. May cause allergic skin reaction. Causes severe skin burns and eye damage. May cause damage to cardiovascular system through prolonged or repeated exposure.		
Precautionary statements			
Prevention	Obtain special instructions before use. Do not handle uread and understood. Wear protective gloves/protective if contact is likely to occur. Do not breathe dust/fumes/work clothing must not be allowed out of the workplace	e clothing/eye protection/face protection/face protection/face protection/face protection/face protection/face	
Response	IF IN EYES: Rinse cautiously with water for several mi and easy to do. Continue rinsing. Immediately call a pl EXPOSED OR CONCERNED: Get medical advice/atto SWALLOWED: Rinse mouth. Do NOT induce vomiting take off all contaminated clothing. Rinse skin with water reuse. IF SKIN IRRITATION OR RASH OCCURS: Get Remove person to fresh air and keep comfortable for the or poison control center.	inutes. Remove contact lenses if pre- hysician or poison control center. IF ention if you feel unwell. IF g. IF ON SKIN (OR HAIR): Immediat er. Wash contaminated clothing befor t medical advice/attention. IF INHAL preathing. Immediately call a physici	
Storage		Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F–85°F.	
Disposal	Dispose of contents/container in accordance with local	l/regional/national/international	
	regulations.		
Hazards not otherwise classif			

SECTION 3: Composition/information on ingredients Mixture Chemical name Common name and synonyms CAS number % w/w Tin (II) chloride Stannous chloride 7772-99-8 5–10 Nonhazardous and other components below reportable levels Not applicable Not applicable 80–100

SECTION 4: First-aid measures

If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

If swallowed

Immediately call a physician or poison control center. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

SECTION 5: Firefighting measures

Extinguishing media Suitable extinguishing media	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Specific hazards arising from the Fire hazard	substance or mixture Not flammable
Explosion hazard	Not explosive
Reactivity	Hazardous reactions will not occur under normal conditions.
Hazardous combustion products	Hydrogen chloride gas, potassium oxides, stannous sulfate, tin chlorides. Other irritating fumes and smoke.
Advice for firefighters	
Precautionary measures	Exercise caution when fighting any chemical fire; hazardous fumes will be present.
Firefighting equipment/instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	Refer to section 9 of the SDS for flammability properties.

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mists or vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, watercourses, or onto the ground.

Methods and material for containment and cleaning up

Ventilate the area. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water to remove residual contamination. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

SECTION 7: Handling and storage

Personal precautions, protective equipment, and emergency procedures

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mists or vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store away from incompatible materials (refer to section 10 of the SDS).

US ACGIH Threshold Limit Valu	les		
Components	Туре		Value
Tin (II) chloride (CAS 7772-99-	8) TWA		2.0 mg/m ³
US NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре		Value
Tin (II) chloride (CAS 7772-99-	8) TWA		2.0 mg/m ³
US OSHA Table Z-1 Limits for A	ir Contaminants (29 CFR 191	0.1000)	
<u>Components</u>	Туре		Value
Tin (II) chloride (CAS 7772-99-	8) TWA		2.0 mg/m ³
Biological limit values			
No biological exposure limits note	d for the ingredient(s)		
Exposure controls			
Appropriate engineering controls	should be matched to condition ventilation, or other engineerin exposure limits. If exposure limits	ons. If applicable, ng controls to ma mits have not bee	ges per hour) should be used. Ventilation rate use process enclosures, local exhaust intain airborne levels below recommended en established, maintain airborne levels to ar gency shower must be available when handling
Personal protective equipment			
Eye/face protection	Wear appropriate chemical sa	afety goggles if co	ontact is likely to occur.
Skin protection	Wear appropriate chemical-re	esistant gloves an	d clothing if contact is likely to occur.
Body protection	Wear appropriate protective c	lothing if contact	is likely to occur.
Respiratory protection	In anon of insufficient ventileti	an	respiratory equipment. Use a NIOSH/MSHA

exposure limits. Advice should be sought from respiratory protection suppliers.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Solid
Form	Powder
Color	White
Odor	Odorless
Odor threshold	No data available
рН	No data available
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Initial boiling point (boiling range)	No data available
Flash point	No data available
Specific gravity	No data available

-	Species Mixture) Rat Rat Rat	Acute Toxicity Estimate (ATE) No data available >5 mg/L >5000 mg/kg
Acute Dermal LD ₅₀ Inhalation LC ₅₀ Oral	Rat Rat	No data available >5 mg/L
Product Stannous Chloride Powder (CAS Acute Dermal LD ₅₀ Inhalation LC ₅₀	Rat	No data available
Product Stannous Chloride Powder (CAS Acute Dermal LD ₅₀ Inhalation	Rat	No data available
Product Stannous Chloride Powder (CAS Acute Dermal LD ₅₀	Mixture)	
Product Stannous Chloride Powder (CAS Acute Dermal	Mixture)	
Product Stannous Chloride Powder (CAS Acute		Acute Toxicity Estimate (ATE)
Product		Acute Toxicity Estimate (ATE)
	Species	Acute Toxicity Estimate (ATE)
Acute toxicity		
	This product is not classified as an acute toxicity hazard. See below for product and individua ingredient acute toxicity data.	
		May cause birth defects or damage fertility, based on animal dat
	•	y cause heritable genetic damage, based on animal data.
	• • •	estinal irritation, nausea, vomiting, and diarrhea.
	breathing difficulties.	
	stinging, tearing, redness, swelling, and blurred vision. Inhalation of dust can cause respiratory irritation. Symptoms may include coughing and	
		serious damage, including blindness. Symptoms may include
Most important symptoms/effects, acute and delayed	scarring, and severe irritation.	Symptoms may include redness, edema, drying, defatting, and e allergic skin reaction. Symptoms may include redness and
	skin/eye contact and ingestion.	corrosive skin burns, deep ulcerations, possibly permanent
Information on toxicological effe		
CTION 11: Toxicological in		
products		
Hazardous decomposition	No hazardous decomposition	products under normal conditions
moompatione materialo	Bromine trifluoride, calcium acetylide, halides, hydrazine, hydrogen peroxide, sodium, sodium oxides, strong bases, strong oxidizing agents, strong reducing agents	
Incompatible materials		
reactions Conditions to avoid	Contact with incompatible mat	erials. Do not use in areas without adequate ventilation.
Possibility of hazardous	No dangerous reaction known under conditions of normal use	
Chemical stability	Stable under recommended ha	andling and storage conditions (refer to section 7 of the SDS)
Reactivity	Hazardous reactions will not o	ccur under normal conditions.
CTION 10: Stability and rea	activity	
Oxidizing properties	No data available	
Explosive properties	No data available	
Viscosity	No data available	
(n-octanol/water)	no data avaliable	
Solubility Partition coefficient	Soluble in all proportions No data available	
Relative density	No data available	
Vapor density	No data available	
Vapor pressure	No data available	
-	No data available	
Lower Flammability Limit	No data available	
Upper Flammability Limit Lower Flammability Limit	No data available	
Upper Flammability Limit	No data available	
	No data available	

Acute			
Dermal			
LD ₅₀	Rat	No data available	
Inhalation			
LC ₅₀	Rat	2 mg/L, 4 hours	
Oral			
LD ₅₀	Rat	700 mg/kg	
Skin corrosion/irritation	Causes severe skin burns and eye dar	nage	
Serious eye damage/eye irritation	Causes serious eye damage		
Respiratory sensitization	No data available		
Skin sensitization	May cause an allergic skin reaction		
Germ cell mutagenicity	Suspected of causing genetic defects		
Carcinogenicity			
IARC Monographs. Overall Eva	luation of Carcinogenicity		
Not regulated			
OSHA Specifically Regulated S	ubstances (29 CFR 1910.1001-1096)		
Not regulated	· · · · ·		
US National Toxicology Program	m (NTP) Report on Carcinogens		
Not regulated			
Reproductive toxicity	Suspected of damaging fertility or the u	unborn child	
Specific target organ toxicity (single exposure)	No data available		
Specific target organ toxicity (repeated exposure)	May cause damage to cardiovascular	system through prolonged or repeated exposure	
Aspiration hazard	No data available		
ECTION 12: Ecological inform	ation		
Ecotoxicity	This product is not classified as enviror	nmentally hazardous.	
Persistence and degradability	No data available		
Bioaccumulative potential	No data available		
Mobility in soil	No data available		
Other adverse effects	Large or frequent spills can have a har	mful or damaging effect on the environment.	

SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

DOT	
UN number	3260
UN Proper shipping name	Corrosive solid, Acidic, Inorganic, N.O.S. (Tin(II) chloride)
Reportable Quantity	None
Class (Subsidiary risk)	8
Label(s)	8
Packing group	III
Special provisions	IB8, IP3, T1, TP33
Packaging exceptions	154
Packaging, non-bulk	213
ΙΑΤΑ	
UN number	3260
UN Proper shipping name	Corrosive solid, Acidic, Inorganic, N.O.S. (Tin(II) chloride)

Class (Subsidiary risk)	8
Packing group	III
Special provisions	None
IMDG	
UN number	3260
UN Proper shipping name	Corrosive solid, Acidic, Inorganic, N.O.S. (Tin(II) chloride)
Class (Subsidiary risk)	8
Packing group	III
Environmental hazards	
Marine pollutant	No
Special provisions	223, 274
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	This substance/mixture is not intended to be transported in bulk.

DOT hazard pictograms

IATA; IMDG hazard	d pictograms
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SECTION 15: Regulatory information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Chemical name	CAS number
Tin(II) chloride	7772-99-8

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

- Other federal regulations
 - Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated

Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A) Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Not regulated

Massachusetts Right-to-Know Act

Not regulated

New Jersey Worker and Community Right-to-Know Act

Chemical name	CAS number
Tin(II) chloride	7772-99-8

Pennsylvania Worker and Community Right-to-Know Act

Not regulated

Rhode Island Right-to-Know Act

Not regulated

SECTION 16: Other information

NFPA Rating

Health hazard	3
Fire hazard	0
Reactivity	1
Specific	N/A

Disclaimer

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Issue date: May 2015

Last revisions February 2018