

SAFETY DATA SHEET

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

SECTION 1: Identification

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 the

manufacturer.

Manufacturer Taylor Technologies, Inc.

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SECTION 2: Hazard(s) identification

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

Label elements

Hazard pictograms



Signal word Danger

Hazard statements Causes serious eye damage. Suspected of causing genetic defects. Suspected of damaging

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

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

exposure.

Precautionary statements

Response

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Wear protective gloves/protective clothing/eye protection/face protection if contact is likely to occur. Do not breathe dust/fumes/gas/mists/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do. Continue rinsing. Immediately call a physician or poison control center. IF

EXPOSED OR CONCERNED: Get medical advice/attention if you feel unwell. IF

SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a physician

or poison control center.

Store locked up. Keep tightly capped. Store out of direct sunlight between 36°F-85°F. Storage Disposal

Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

SDS US

SECTION 3: Composition/information on ingredients

Mixture

	xtu.o			
_	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

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific hazards arising from the substance or mixture

Fire hazard 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 Use water spray or fog for cooling exposed containers.

equipment/instructions

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.

Reference to other sections

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).

SECTION 8: Exposure controls/personal protection

Occupational exposure limits

US ACGIH Threshold Limit Values

Components	Type	Value				
Tin (II) chloride (CAS 7772-99-8)	TWA	2.0 mg/m ³				
US NIOSH: Pocket Guide to Chemical Hazards						
Components	Туре	Value				
Tin (II) chloride (CAS 7772-99-8)	TWA	2.0 mg/m ³				
US OSHA Table Z-1 Limits for Air Contamin	ants (29 CFR 1910.1000)					
Components	Туре	<u>Value</u>				
Tin (II) chloride (CAS 7772-99-8)	TWA	2.0 mg/m ³				

Biological limit values

No biological exposure limits noted for the ingredient(s)

Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling

this product.

Personal protective equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective clothing if contact is likely to occur.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the

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 pΗ 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

Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Upper Flammability Limit No data available Lower Flammability Limit No data available Vapor pressure No data available Vapor density No data available Relative density No data available

Solubility Soluble in all proportions

Partition coefficient

(n-octanol/water)

No data available

No data available Viscosity Explosive properties No data available Oxidizing properties No data available

SECTION 10: Stability and reactivity

Reactivity Hazardous reactions will not occur under normal conditions.

Stable under recommended handling and storage conditions (refer to section 7 of the SDS) Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use

Conditions to avoid Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Bromine trifluoride, calcium acetylide, halides, hydrazine, hydrogen peroxide, sodium, sodium

oxides, strong bases, strong oxidizing agents, strong reducing agents

Hazardous decomposition

products

No hazardous decomposition products under normal conditions

SECTION 11: Toxicological information

Information on toxicological effects

Likely routes of exposure are skin/eye contact and ingestion.

Most important symptoms/effects, acute and delayed

Direct skin contact may cause corrosive skin burns, deep ulcerations, possibly permanent scarring, and severe irritation. Symptoms may include redness, edema, drying, defatting, and cracking of the skin. May cause allergic skin reaction. Symptoms may include redness and itching.

Direct eye contact may cause serious damage, including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Inhalation of dust can cause respiratory irritation. Symptoms may include coughing and breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Possible germ cell hazard. May cause heritable genetic damage, based on animal data.

Possible reproductive hazard. May cause birth defects or damage fertility, based on animal data.

Acute toxicity This product is not classified as an acute toxicity hazard. See below for product and individual

ingredient acute toxicity data.

Product Species Acute Toxicity Estimate (ATE)

Stannous Chloride Powder (CAS Mixture)

Acute

Components

Dermal

Oral

LD₅₀ Rat

Inhalation

LC₅₀ Rat

Rat

Species

No data available

>5000 mg/kg

Acute Toxicity Data

>5 mg/L

Tin(II) chloride (CAS 7772-99-8)

LD₅₀

Acute

Dermal

LD₅₀ Rat No data available

Inhalation

LC₅₀ Rat 2 mg/L, 4 hours

Oral

 LD_{50} Rat 700 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage

Serious eye damage/eye irritation Causes serious eye damage

Respiratory sensitization No data available

Skin sensitizationMay cause an allergic skin reactionGerm cell mutagenicitySuspected of causing genetic defects

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not regulated

Reproductive toxicity Suspected of damaging fertility or the 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

SECTION 12: Ecological information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No data available

No data available

Other adverse effects Large or frequent spills can have a harmful 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

Class (Subsidiary risk)

Label(s)

Packing group

None

8

Special provisions IB8, IP3, T1, TP33

Packaging exceptions 154
Packaging, non-bulk 213

IATA

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 nameCorrosive solid, Acidic, Inorganic, N.O.S. (Tin(II) chloride)

Class (Subsidiary risk) 8
Packing group III

Environmental hazards

Marine pollutantNoSpecial provisions223, 274EmSF-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 pictograms

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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