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MATERIAL SAFETY DATA SHEET (MSDS)

STANNOUS CHLORIDE AR (TIN II CHLORIDE)

1. Product Identification

Synonyms: Tin (II) chloride dihydrate; stannochlor; stannous chloride dihydrate; Tin Dichloride, Dihydrate
CAS No.: 7772-99-8 (Anhydrous); 10025-69-1 (Dihydrate)

Product Coad: S0199800250
Molecular Weight: 225.63
Chemical Formula: SnCl₂ . 2H₂O

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Stannous Chloride	7772-99-8	98 - 100%	Yes

3. Hazards Identification

Emergency Overview WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.
Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. **Ingestion:** Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. May cause burning in mouth and throat, abdominal pain, reduced blood pressure, stomach bleeding, collapse and convulsions. May cause liver and kidney damage. **Skin Contact:** Causes irritation to skin. Symptoms include redness, itching, and pain. **Eye Contact:** Causes irritation, redness, and pain. **Chronic Exposure:** Repeated skin contact with solutions may cause skin rashes in susceptible individuals. Prolonged inhalation of dust or fume may result in a benign pneumoconiosis, producing distinctive changes in the lungs with no apparent disability or complications. **Aggravation of Pre-existing Conditions:** Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. **Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. **Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard. **Explosion:** Not considered an explosion hazard, but reacts explosively when mixed with nitrates or hydrogen peroxide (> 3% solution). Sealed containers may rupture when heated. **Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Aqueous solutions of this material are acidic. Avoid its contact with eyes and skin. Avoid breathing its fumes or dust. When heated to decomposition it emits toxic and corrosive fume of hydrochloric acid.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Aqueous solutions are acidic; use only in corrosion-resistant vessels. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: Inorganic Tin Compounds, as Sn:
 -OSHA Permissible Exposure Limit (PEL): 2 mg/m³ (TWA)
 -ACGIH Threshold Limit Value (TLV): 2 mg/m³ (TWA)
 -NIOSH Recommended Exposure Limits (REL): 2 mg/m³ (TWA).
Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

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Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a full facepiece respirator with dust/mist filter may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Colorless crystals.

Odor: Slight odor of hydrochloric acid.

Solubility: 118g/100ml water @ 0C (32F).

Specific Gravity: 2.71

pH: No information found.

% Volatiles by volume @ 21C (70F): 0

10. Stability and Reactivity

Stability: Powerful reducing agent. Small quantities of hydrochloric acid are present in aqueous solutions. Absorbs oxygen from air and forms the insoluble oxychloride. Forms an insoluble basic salt when dissolved with much water.

Hazardous Decomposition Products: When heated to decomposition it emits toxic and corrosive fume of hydrochloric acid.

Hazardous Polymerization: Will not occur.

Incompatibilities: Sodium, potassium, bromine trifluoride, calcium carbide, calcium acetylide, ethylene oxide, and nitrates. Reacts with hydrazine hydrate to form dihydrazine chloride, which decomposes explosively when heated. Contact with strong oxidizing agents or alkalis will generate heat and fumes.

Conditions to Avoid:

Moisture, heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Anhydrous: Oral rat LD50: 700 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector. Hydrate: Investigated as a mutagen, reproductive effector.

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Stannous Chloride (7772-99-8)	No	No	None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

N/A

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MATERIAL SAFETY DATA SHEET (MSDS)**STANNOUS CHLORIDE AR (TIN II CHLORIDE)****16. Other Information**

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Label Hazard Warning: WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Label Precautions: Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid: If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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