



Material Safety Data Sheet
Stannous chloride solution, 10 - 40%

Section 1 - Chemical Product and Company Identification

MSDS Name:

Stannous chloride solution, 10 - 40%

Catalog Numbers:

LC25180, LC25200

Synonyms:**Company Identification:**

LabChem, Inc.
 200 William Pitt Way
 Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
10025-69-1	Stannouschloridedihydrate	10 - 40
7647-01-0	Hydrogenchloride	36
7732-18-5	Water	balance

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear very slight yellow

Danger! Corrosive. May cause irritation with possible injury by all exposure routes.

Causes severe eye and skin burns. Causes severe digestive and respiratory tract burns.

Target Organs: None.

Potential Health Effects**Eye:**

Vapors are irritating to the eye, liquid contact may result in clouding of the cornea, erosion, up to total corneal opacification and loss of the eye. May cause stinging, burning sensation, lacrymation; usually without injury. 2% aqueous solutions applied to human eyes for seconds were without significant injury. Solutions of 0.25N-1N causes scarring of rabbit cornea, injury at pH less than 3.



Material Safety Data Sheet

Stannous chloride solution, 10 - 40%

Skin:

May cause severe burns and ulceration. Skin may turn brown-yellow. Deep burns are slow to heal and scarring may occur. May cause irritation and defatting.

Ingestion:

Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. Headache, nausea, diarrhea, fever; large doses cause hemolysis hemoglobinuria, hyperglycemia, glycosuria, renal failure, convulsions, narcosis, and paralysis.

Ingestion causes necrosis of liver and spleen, nausea, abdominal and chest pain, vomiting, diarrhea.

Inhalation:

May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Palpitation, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema may result from inhalation exposure. May cause irritation and dehydration of mucous membranes.

Chronic:

Chronic exposure may result in dental erosion, jaw necrosis, respiratory disease, dermatitis, conjunctivitis, corneal scarring and fever. Skin irritation/dermatitis, conjunctivitis and lacrimation of the eye can occur.

Section 4 - First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until chemical is gone. Get medical aid at once. SPEEDY ACTION IS CRITICAL!

Skin:

Get medical aid at once. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. SPEEDY ACTION IS CRITICAL!

Ingestion:

Do NOT induce vomiting. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid at once.

Inhalation:

Get medical aid at once. Move victim to fresh air immediately. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

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. Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam.

Autoignition Temperature:

No information found.



Material Safety Data Sheet

Stannous chloride solution, 10 - 40%

Flash Point:

No information found.

NFPA Rating:

CAS# 10025-69-1: Not published.

CAS# 7647-01-0: Not published.

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Clean up spills immediately, observing precautions in the Protective Equipment section.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Wash hands before eating. Use only in a well ventilated area. Avoid breathing dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Do not allow contact with water. Use caution when opening.

Storage:

Store in a cool, dry area. Store in a tightly closed container. Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Provide local exhaust or general dilution ventilation.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Stannous chloride dihydrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Hydrogen chloride	None of the components are on this list.	None of the components are on this list.	C 5 ppm; C 7 mg/m3;

OSHA Vacated PELs**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. Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.



Material Safety Data Sheet

Stannous chloride solution, 10 - 40%

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134. Always use a NIOSH-approved respirator when necessary. Not required for normal use. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: clear very slight yellow

Odor: odorless

pH: acidic

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: < ether

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.

Decomposition Temperature: No information found.

Solubility in water: Partially soluble.

Specific Gravity/Density: 1.0

Molecular Formula: No information found.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

High temperatures, incompatible materials, strong oxidants.

Incompatibilities with Other Materials

Acids (organic, e.g. acetic acid, benzoic acid, formic acid, methanoic acid, oxalic acid), alcohols and glycols (e.g. butyl alcohol, ethanol, methanol, ethylene glycol), aldehydes (e.g. acetaldehyde, acrolein, chloral hydrate, formaldehyde), amides (e.g. butyramide, diethyltoluamide, dimethyl formamide), amines (aliphatic and aromatic, e.g. dimethyl amine, propylamine, pyridine, triethylamine), azo, diazo, and hydrazines (e.g. dimethyl hydrazine, hydrazine, methyl hydrazine), carbamates (e.g. carbanolate, carbofuran), caustics (e.g. ammonia, ammonium hydrozide, calcium hydroxide, potassium hydroxide, sodium hydroxide), cyanides (e.g. potassium cyanide, sodium cyanide), dithiocarbamates (e.g. ferbam, maneb, metham, thiram), esters (e.g. butyl acetate, ethyl acetate, propyl formate), ethers (e.g. dioxane, furfuran, tetrahydrofuran (THF)), fluorides (inorganic, e.g. ammonium fluoride, calcium fluoride, cesium fluoride), hydrocarbons (aromatic, e.g. benzene, chrysene, cumene, toluene), halo.

Hazardous Decomposition Products

Hydrogen chloride, chlorine, hydrogen gas, acrolein.



Material Safety Data Sheet
Stannous chloride solution, 10 - 40%

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 10025-69-1: XP8850000.

CAS# 7647-01-0: MW4025000.

LD50/LC50:

CAS# 10025-69-1:

No information found. CAS# 7647-01-0:

Inhalation, mouse: LC50 = 1108 ppm/1H

Inhalation, rat: LC50 = 3124 ppm/1H

Oral, rabbit: LD50 = 900 mg/kg.

Carcinogenicity:

CAS# 10025-69-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7647-01-0

ACGIH: Not listed.

California: Not listed.

NIOSH: Not listed.

NTP: Not listed.

OSHA: Not listed.

IARC: Group 3

Epidemiology:

No information available.

Teratogenicity:

Embryo or Fetus: Stunted fetus, ihl-rat TCL0=450 mg/m³/1H Specific Developmental Abnormalities: homeostatis, ihl-rat TCL0=450 mg/m³/1H

Reproductive:

No information available.

Mutagenicity

Sln-dmg-ihl: 100 ppm/24H sln-dmg-orl: 100 ppm cyt-grh-par: 20 mg cyt-ham lung: 30 mmol/l cyt-ovr-ham: 8 mmol/l

Neurotoxicity

No information found.

Section 12 - Ecological Information

Ecotoxicity:

Trout LC100=10 mg/l/24H Shrimp LC50=100-330 ppm Starfish LC50=100-330 mg/l/48H Shore crab LC50=240 mg/l/48H Chronic plant toxicity=100 ppm Fish-toxicity LC50:862 mg/l

Environmental:

Substance will neutralize soil carbonate-based components.

Physical:

No information available.

Other:

None.



Material Safety Data Sheet
Stannous chloride solution, 10 - 40%

Section 13 - Disposal Considerations

Dispose of in accordance with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Hydrochloric acid, solution

Hazard Class: 8

UN Number: UN1789

Packing Group: PG II

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 10025-69-1 is not on the TSCA Inventory, however, its anhydrous form is on the inventory and so this hydrate is exempt from TSCA Inventory requirements (40CFR270.3(u)(2)).

CAS# 7647-01-0 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS# 7647-01-0: final RQ = 5000 pounds (2270 kg)

CERCLA/SARA Section 313

This material contains Hydrogen chloride (CAS# 7647-01-0, 36%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous

CAS# 7647-01-0 is considered highly hazardous by OSHA.

US State

State Right to Know

Hydrogen chloride can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7647-01-0 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 10025-69-1 is listed on Canada's Ingredient Disclosure List.

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Material Safety Data Sheet
Stannous chloride solution, 10 - 40%

Section 16 - Other Information

MSDS Creation Date: November 29, 1998
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