

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 12.18.2014**Stannous Chloride 0.2M****SECTION 1: Identification of the substance/mixture and of the supplier****Product name:** Stannous Chloride 0.2M**Manufacturer/Supplier Article number:** SC7927SS**Recommended uses of the product and restrictions on use:** Laboratory chemicals**Manufacturer Details:**

AquaPhoenix Scientific, Inc.
860 Gitts Run Road
Hanover, PA 17331
1-717-632-1291

Emergency telephone number:**ChemTel: (24-hour)**

+1(800)255-3924

+1(813)248-0585 (International)

SECTION 2: Hazards identification**Classification of the substance or mixture:****Corrosive**

Serious eye damage, category 1

Skin corrosion, category 1B

Corrosive to metals, category 1

**Irritant**

Skin sensitization, category 1

Skin Sens. 1.

Eye Dam. 1.

Skin corr 1B.

Corrosive to metals 1.

Signal word: Danger**Hazard statements:**

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Precautionary statements:

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

Do not eat, drink or smoke when using this product.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

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.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 12.18.2014**Stannous Chloride 0.2M**

If eye irritation persists get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
 If skin irritation or a rash occurs: Get medical advice/attention.
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 Store locked up.
 Dispose of contents and container as instructed in Section 13.

Other Non-GHS Classification: None**SECTION 3: Composition/information on ingredients****Ingredients:**

| Ingredients: | | |
|---------------------------|------------------------------|----------|
| CAS 10025-69-1 | Stannous Chloride, Dihydrate | 2.256 % |
| CAS 7647-01-0 | Hydrochloric Acid, ACS | 4.55 % |
| CAS 7732-18-5 | Deionized Water | 93.194 % |
| Percentages are by weight | | |

SECTION 4: First aid measures**Description of first aid measures****After inhalation:**

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

After skin contact:

Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

After eye contact:

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Shortness of breath. Nausea, vomiting, diarrhea. Irritation/burns, all routes of exposure; may cause redness, tearing.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing agents:**

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 12.18.2014**Stannous Chloride 0.2M**

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use appropriate means to extinguish surrounding fire. Neutralize with suitable material.

Unsuitable extinguishing agents: None**Special hazards arising from the substance or mixture:**

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Advice for firefighters:**Protective equipment:**

Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions):

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Transfer to a disposal or recovery container. Use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Treat the solid residue as normal refuse. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air. Cover spill with sodium carbonate or soda ash-slaked lime mixture. Mix and add water to form slurry. Decant the liquid to drain with excess water.

Reference to other sections: None**SECTION 7: Handling and storage****Precautions for safe handling:**

Wash hands after handling. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. Use only in well ventilated areas. Avoid generation of dust or fine particulate. Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Store with like hazards.

SECTION 8: Exposure controls/personal protection

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 12.18.2014**Stannous Chloride 0.2M**

| | |
|--|--|
| Control parameters: | <p>10025-69-1, Stannous Chloride, Dihydrate., 2.000000 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z - 1 Limits for Air Contaminants.</p> <p>10025-69-1, Stannous Chloride, Dihydrate., 2.000000 mg/m3 USA. ACGIH Threshold Limit Values (TLV).</p> <p>10025-69-1, Stannous Chloride, Dihydrate., 2.000000 mg/m3 USA. NIOSH Recommended Exposure Limits.</p> <p>7647-01-0, Hydrochloric acid, ACGIH - Threshold Limit Values - Ceilings (TLV-C) 2 ppm.</p> <p>7647-01-0, Hydrochloric acid, OSHA PEL 5 ppm Ceiling; 7 mg/m3 Ceiling.</p> |
| Appropriate engineering controls: | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a fume hood. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). |
| Respiratory protection: | Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. |
| Protection of skin: | The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. |
| Eye protection: | Safety glasses with side shields or goggles. |
| General hygienic measures: | The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin. |

SECTION 9: Physical and chemical properties

| | | | |
|--|-------------------------|--|---|
| Appearance (physical state, color): | Clear, colorless liquid | Explosion limit lower: Explosion limit upper: | Not determined Not determined |
| Odor: | Odorless | Vapor pressure at 20°C: | Not determined |
| Odor threshold: | Not determined | Vapor density: | Not determined |
| pH-value: | Not determined | Relative density: | 2.7 |
| Melting/Freezing point: | 38C (100F) | Solubilities: | ND = Not Determined.; N/A = Not Applicable. |
| Boiling point/Boiling range: | Decomposes | Partition coefficient (n-octanol/water): | Not determined |
| Flash point (closed cup): | Not determined | Auto/Self-ignition temperature: | Not determined |
| Evaporation rate: | Not determined | Decomposition temperature: | Decomposes in water. |

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 12.18.2014

| Stannous Chloride 0.2M | | | |
|---------------------------------------|----------------|-------------------|--|
| Flammability (solid, gaseous): | Not determined | Viscosity: | a. Kinematic: Not determined b. Dynamic: Not determined |
| Density at 20°C: | Not determined | | |

SECTION 10: Stability and reactivity**Reactivity:**

None under normal processing.

Chemical stability:

Material is moisture sensitive.

Possible hazardous reactions:

None under normal processing.

Conditions to avoid:

Store away from oxidizing agents, strong acids or bases. High temperatures, incompatible materials, moisture, exposure to air.

Incompatible materials:

Moisture. Hydrogen peroxide, Strong bases, Strong oxidizing agents, Bromine trifluoride, Hydrazine, Ethylene oxide, Metals, organic nitrates. Most metals, alkalis, cyanides, sulfides, sulfites, formaldehyde.

Hazardous decomposition products:Carbon oxides (CO, CO₂). Hydrogen chloride, chlorine, oxides of tin, irritating and toxic fumes.**SECTION 11: Toxicological information****Acute Toxicity:****Dermal:**

LD50 Rabbit >5010 mg/kg 7647-01-0.

Chronic Toxicity: No additional information.**Skin corrosion/irritation:** No additional information.**Serious eye damage/irritation:** No additional information.**Respiratory or skin sensitization:** No additional information.**Carcinogenicity:****IARC:** Group 3 (Not Classifiable) - Monograph 54 [1992] [7647-01-0]**Germ cell mutagenicity:** No additional information.**Reproductive Toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:**

No additional information.

SECTION 12: Ecological information**Ecotoxicity:** No additional information.**Persistence and degradability:**

Readily degradable in the environment.

Bioaccumulative potential: No additional information.**Mobility in soil:** No additional information.**Other adverse effects:** No additional information.

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 12.18.2014**Stannous Chloride 0.2M****SECTION 13: Disposal considerations****Waste disposal recommendations:**

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

SECTION 14: Transport information**US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA

Not regulated.

Limited Quantity Exception:

None

Bulk:**RQ (if applicable):** None**Proper shipping Name:** Not regulated.**Hazard Class:** None**Packing Group:** Not regulated.**Marine Pollutant (if applicable):** No additional information.**Comments:** None**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** Not regulated.**Hazard Class:** None**Packing Group:** Not regulated.**Marine Pollutant (if applicable):** No additional information.**Comments:** None**SECTION 15: Regulatory information****United States (USA)****SARA Section 311/312 (Specific toxic chemical listings):**

Acute

SARA Section 313 (Specific toxic chemical listings):

7647-01-0 Hydrochloric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size; 1.0 % de minimis concentration).

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) :

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7647-01-0 Hydrochloric acid 5000 lbs.

Proposition 65 (California):**Chemicals known to cause cancer:**

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 12.18.2014**Stannous Chloride 0.2M**

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada**Canadian Domestic Substances List (DSL) :**

All ingredients are listed.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 2-0-0**HMIS:** 2-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:**

| | |
|-------|--|
| IMDG | International Maritime Code for Dangerous Goods. |
| PNEC. | Predicted No-Effect Concentration (REACH). |
| CFR | Code of Federal Regulations (USA) |
| SARA | Superfund Amendments and Reauthorization Act (USA). |
| RCRA. | Resource Conservation and Recovery Act (USA). |
| TSCA. | Toxic Substances Control Act (USA). |
| NPRI | National Pollutant Release Inventory (Canada). |
| DOT | US Department of Transportation. |
| IATA | International Air Transport Association. |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals. |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS | Chemical Abstracts Service (division of the American Chemical Society). |
| NFPA | National Fire Protection Association (USA). |
| HMIS | Hazardous Materials Identification System (USA). |
| WHMIS | Workplace Hazardous Materials Information System (Canada). |
| DNEL | Derived No-Effect Level (REACH). |