SAFETY DATA SHEET

1. IDENTIFICATION

Product code: S1522
Product Name: STANNIC CHLORIDE, LUMP, PURIFIED

Other means of identification
Synonyms: Tin (IV) chloride, pentahydrate
Tetrachlorostannane pentahydrate
CAS #: 10026-06-9
RTECS #: XP8870000
CI#: Not available

Recommended use of the chemical and restrictions on use
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category/Sub-category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1/Sub-category B</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Label elements
Hazard statements
Causes severe skin burns and eye damage
May cause respiratory irritation

Other hazards
Reacts with water to evolve heat

Precautionary Statements - Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
Specific treatment (see ... on this label)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate</td>
<td>10026-06-9</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

Product code: S1522
Product name: STANNIC CHLORIDE, LUMP, PURIFIED
4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact: Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation: WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, give oxygen. Immediate medical attention is required.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms Corrosive to the eyes and may cause severe damage including blindness. Possible corrosion and tissue destruction of the esophagus and digestive tract. Causes severe skin burns. May affect the liver. May affect behavior/central nervous system. Severe irritation or burns of the respiratory tract and possible lung injury. Inorganic tin salts are poorly absorbed into the body. When parenterally administered tin salts are highly toxic. Tin oxide inhaled as a dust or fume leads to a benign pneumoconiosis with no sign of interference with pulmonary function. Deposited dust appears nodular with the particles being mostly extracellular. No necrosis, foreign-body giant-cell reaction, or collagen formation has been seen. Tin salts that have gained access to the blood stream are highly toxic and produce neurologic damage and paralysis. With most common tin salts, the toxicity profile is complicated by hydrolysis in body fluids producing unphysiologic pH values. The reported symptoms of hyperemia, vascular changes with bleeding in the central nervous system, liver, heart, and other organs may be due to tin itself or to the unphysiological pH changes. Ingestion produces vomiting due to the gastric irritation from the activity and astringency of tin compounds. Injection of inorganic tin salts produces diarrhea, muscle paralysis, and twitching.. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.. spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting..

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Product code: S1522 Product name: STANNIC CHLORIDE, LUMP, PURIFIED
Hazardous Combustion Products: If involved in a fire, the following can be released: Hydrogen chloride, Tin/Tin oxides

Specific hazards: Not easily combustible Not considered to be an explosion hazard When heated to decomposition it emits toxic fumes of hydrogen chloride

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Avoid dust formation.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains. Do not let this chemical enter the environment.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Avoid dust formation. Do not breathe vapours/dust. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


Product code: S1522 Product name: STANNIC CHLORIDE, LUMP, PURIFIED
8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate 10026-06-9</td>
<td>2 mg/m³ TWA (as Sn)</td>
<td>2 mg/m³ TWA (as Sn)</td>
<td>2 mg/m³ TWA (as Sn)</td>
<td>None</td>
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</table>

Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate 10026-06-9</td>
<td>2 mg/m³ TWA (as Sn)</td>
<td>2 mg/m³ TWA (as Sn)</td>
<td>2 mg/m³ TWA (as Sn)</td>
<td>2 mg/m³ TWA EV (as Sn)</td>
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Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate 10026-06-9</td>
<td>2 mg/m³ TWA (as Sn)</td>
<td>2 mg/m³ TWA (as Sn)</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles.


Respiratory protection: Effective dust mask. or. Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Taste</th>
<th>Formula:</th>
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</thead>
<tbody>
<tr>
<td>Slight hydrochloric acid odor.</td>
<td>No information available</td>
<td>SnCl4.5H2O</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Molecular/Formula weight:</th>
<th>Flammability:</th>
<th>Flash point (°C):</th>
</tr>
</thead>
<tbody>
<tr>
<td>350.58 g/mol</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Flashpoint (°C/°F):</th>
<th>Flash Point Tested according to:</th>
<th>Autoignition Temperature (°C/°F):</th>
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</thead>
<tbody>
<tr>
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<td>No information available</td>
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<table>
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<table>
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<th>Boiling point/range(°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
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<tbody>
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<td>56°C/133°F</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Bulk density:</th>
<th>Density (g/cm³):</th>
<th>Specific gravity:</th>
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<tbody>
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<td>2.04</td>
<td>No information available</td>
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<table>
<thead>
<tr>
<th>Vapor pressure @ 20°C (kPa):</th>
<th>Evaporation rate:</th>
<th>Vapor density:</th>
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<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VOC content (g/L):</th>
<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
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</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Viscosity:</th>
<th>Miscibility:</th>
<th>Solubility:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>Very soluble in water Soluble in Alcohol</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point Tested according to:</th>
<th>Autoignition Temperature (°C/°F):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical stability</th>
<th>Stable under recommended storage conditions</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Possibility of Hazardous Reactions:</th>
<th>Hazardous polymerization does not occur</th>
</tr>
</thead>
</table>

|----------------------|---------------------------------------------------------------------------------|

|------------------------|------------------------------------------------------------------------------------------------|

|-----------------------------------|--------------------------------|

<table>
<thead>
<tr>
<th>Other Information</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Product code:</th>
<th>Product name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1522</td>
<td>STANNIC CHLORIDE, LUMP, PURIFIED</td>
</tr>
</tbody>
</table>
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Ingestion. Inhalation. Eyes.

Acute Toxicity

Component Information

Stannic Chloride, Pentahydrate - 10026-06-9

LD50/oral/rat = No information available  
LD50/oral/mouse = No information available  
LD50/dermal/rat = No information available  
LD50/dermal/rabbit = No information available  
LC50/inhalation/rat = No information available  
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat = 
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse = 
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit 
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat 
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat 
VALUE-Vapor = No information available  
VALUE-Gas = No information available   
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse 
VALUE-Vapor = No information available  
VALUE - Gas = No information available 
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Corrosive. Causes severe irritation and burns.

Eye Contact: Causes severe irritation and burns.
Inhalation
Causes severe irritation of the respiratory tract and mucous membranes with possible chemical burns. Symptoms may include burning sensation, coughing and sore throat.

Ingestion
May cause gastrointestinal tract irritation. A low toxicological risk is generally associated with ingestion of inorganic tin. This is due largely to the low degree of absorption and low tissue retention. However, when tin compounds have gained access to the blood stream the following symptoms may occur: metallic taste, vomiting, diarrhea or constipation, abdominal pain, nausea, fatigue, headache.

Aspiration hazard
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
No information available

Sensitization:
No information available

Mutagenic Effects:
No information available

Carcinogenic effects:
Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Reproductive toxicity
No data is available

Reproductive Effects:
No information available

Developmental Effects:
No information available

Teratogenic Effects:
No information available

Specific Target Organ Toxicity

STOT - single exposure
No information available

STOT - repeated exposure
No information available

Target Organs:
No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:
Aquatic environment.

Stannic Chloride, Pentahydrate - 10026-06-9

Water Flea Data:
14.30.4 mg/L EC50 Daphnia magna 48h static

Persistence and degradability:
No information available

Bioaccumulative potential:
No information available

Mobility:
No information available

Product code: S1522
Product name: STANNIC CHLORIDE, LUMP, PURIFIED
13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal Do not re-use empty containers Dispose of as unused product.

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-No: UN2440
Proper Shipping Name: Stannic chloride pentahydrate
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
ERG No: 154
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Symbol(s):

TDG (Canada)
UN-No: UN2440
Proper Shipping Name: Stannic chloride pentahydrate
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

ADR
UN-No: UN2440
Proper Shipping Name: Stannic chloride pentahydrate
Hazard Class: 8
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN2440
Proper Shipping Name: Stannic chloride pentahydrate
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III

Product code: S1522  Product name: STANNIC CHLORIDE, LUMP, PURIFIED
14. TRANSPORT INFORMATION

Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: UN2440
Proper Shipping Name: Stannic chloride pentahydrate
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN2440
Proper Shipping Name: Stannic chloride pentahydrate
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

IATA
UN-No: UN2440
Proper Shipping Name: Stannic chloride pentahydrate
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 8L
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate</td>
<td>Not Listed</td>
<td>Not present</td>
<td>Present</td>
<td>Present (1)-260</td>
<td>Present</td>
<td>Present</td>
<td>Not present</td>
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</tbody>
</table>

U.S. Regulations

Stannic Chloride, Pentahydrate

New Jersey RTK Hazardous Substance List: 1731
California Directors List of Hazardous Substances: Present (listed as Tin compounds)


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<tbody>
<tr>
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Product code: S1522  Product name: STANNIC CHLORIDE, LUMP, PURIFIED
### CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate</td>
<td>None</td>
<td>None</td>
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### U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
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</tbody>
</table>

### Canada

**WHMIS hazard class:**
- E Corrosive material

**Stannic Chloride, Pentahydrate**
- E

**Canada Controlled Products Regulation:**
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

### Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate</td>
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<td>Not Listed</td>
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<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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</thead>
<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate</td>
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<td>Not listed</td>
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</tbody>
</table>

### EU Classification

**R-phrase(s)**
- R34 - Causes burns.
- R37 - Irritating to respiratory system.

**S-phrase(s)**
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<tbody>
<tr>
<td>Stannic Chloride, Pentahydrate</td>
<td>No information</td>
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</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Product code:** S1522  
**Product name:** STANNIC CHLORIDE, LUMP, PURIFIED
Indication of danger:
C - Corrosive.
Xi - Irritant.

16. OTHER INFORMATION

Preparation Date: 8/12/2015
Revision Date: 8/12/2015
Prepared by: Sonia Owen

Disclaimer:
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End of Safety Data Sheet