# Bayville Chemical Supply Company Inc.

70-G East Jefryn Boulevard, Deer Park, New York 11729 USA
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# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifiers**

**Product name:** Tin (II) Chloride

CAS-No.: 7772-99-8

**Relevant identified uses of the substance or mixture and uses advised against Identified uses:**
Laboratory chemicals, Manufacture of substances

**Details of the supplier of the safety data sheet:**

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70-G East Jefryn Boulevard
Deer Park, New York, 11729 USA
Telephone: +1 631-586-4309
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## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**
**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

GHS05 Corrosion
Skin Corr. 1C H314, Causes severe skin burns and eye damage
Eye Dam. 1 H318, Causes serious eye damage

GHS07
Acute Tox. 4 H302, Harmful if swallowed
Skin Sens. 1 H317, May cause an allergic skin reaction
Hazards not otherwise classified: No information known.

**GHS Label elements, including precautionary statements**
Pictogram




Signal word Danger

Hazard statement(s)

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H341 | Suspected of causing genetic defects |
| H361 | Suspected of damaging fertility or the unborn child |
| H373 | May cause damage to organs (cardio-vascular system) through prolonged or repeated exposure if swallowed |
| H401 | Toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

Precautionary statement(s)

| | |
|---|---|
| P201 | Obtain special instructions before use |
| P202 | Do not handle until all safety precautions have been read and understood |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray |
| P264 | Wash skin thoroughly after handling |
| P271 | Use only outdoors or in a well-ventilated area |
| P272 | Contaminated work clothing should not be allowed out of the workplace |
| P273 | Avoid release to the environment |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do not induce vomiting |
| P303 + P361 + P358 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower |
| P304 + P340 + P310 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/Doctor |
| P305+P51+P338+P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER/doctor |
| P308 + P313 | If exposed or concerned, get medical advice/attention |
| P333 + P313 | If skin irritation or rash occurs, get medical advice/attention |
| P363 | Wash contaminated clothing before reuse |
| P391 | Collect spillage |
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed |
| P405 | Store locked up |
| P501 | Dispose of contents/ container to an approved waste disposal plant. |

**Hazards not otherwise classified (HNOC) or not covered by GHS** – none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substances**

| | |
|---|---|
| Synonyms: | Stannous chloride |
| Formula: | $SnCl_2$ |
| Molecular weight: | 189.62 g/mol |
| CAS-No.: | 7772-99-8 |
| EC-No.: | 231-868-0 |

**Hazardous components**

| Component | Classification | Concentration |
|---|---|---|
| **Tin dichloride** | Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; Skin Sens 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H302+H332, H314, H317, H373, H410 | 99-100 % |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

**Description of first aid measures**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed: Do not induce vomiting.** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available

## 5. FIREFIGHTING MEASURES

**Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Hydrogen Chloride, Tin Oxides

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** No data available

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive. Store under inert gas.

**Specific end use(s):** Apart from the uses mentioned in section 1 no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Components with workplace control parameters**

| Component | CAS-No. | Value | Control parameters | Basis |
|---|---|---|---|---|
| Tin dichloride | 7772-99-8 | TWA | 2.000000 mg/m$^3$ | USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants |
| | | TWA | 2.000000 mg/m$^3$ | USA. ACGIH Threshold Limit Values (TLV) |
| | Remarks | Eye & Upper Respiratory Tract irritation, Headache, Pneumoconiosis, | | |

| | | | | |
|---|---|---|---|---|
| | | varies | | |
| | | TWA | 2.000000 mg/m$^3$ | USA. NIOSH Recommended Exposure Limits |
| | | TWA | 2.000000 mg/m$^3$ | USA. ACGIH Threshold Limit Values (TLV) |
| | | Pneumoconiosis (or Stannosis), varies | | |
| | | TWA | 2 mg/m$^3$ | USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants |
| | | TWA | 2 mg/m$^3$ | USA. ACGIH Threshold Limit Values (TLV) |
| | | Pneumoconiosis (or Stannosis), varies | | |
| | | TWA | 2 mg/m$^3$ | USA. NIOSH Recommended Exposure Limits |
| | | TWA | 2 mg/m$^3$ | California permissible exposure limits for chemical contaminants (Title 8, Article 107) |

**Exposure controls**
**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**
**Eye/face protection:** Face shield and safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril®

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril®
Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance Form: | crystalline |
| Color: | white |
| Odor: | odorless |
| Odor Threshold: | No data available |
| pH: | < 1 at 50 g/l |
| Melting point/freezing point: | Melting point/freezing point: 246 °C 475 °F) - Lit. |
| Initial boiling point and boiling range: | 652 $^{o}$C (1206 $^{o}$F) - Lit. |
| Flash point: | No data available |
| Evaporation rate: | No data available |
| Flammability (solid, gas): | No data available |
| Upper/lower flammability or explosive limits: | No data available |
| Vapor pressure: | No data available |
| Vapor density: | No data available |
| Relative density: | 3.950 g/cm$^{3}$ |
| Water solubility: | 1780 g/l at 10 $^{o}$C (50 $^{o}$F) - soluble |
| Partition coefficient: noctanol/water: | log POW. Ca. -2.149 |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Viscosity: | No data available |
| Explosive properties: | No data available |
| Oxidizing properties: | the substance or mixture is not classified as oxidizing |

**Other safety information:**

| | |
|---|---|
| Bulk Density: | 3.95 g/l |

## 10. STABILITY AND REACTIVITY

**Reactivity:** No data available
**Chemical stability:** Stable under recommended storage conditions.
**Possibility of hazardous reactions:** No data available
**Conditions to avoid:** Avoid moisture
**Incompatible materials:** Strong bases, Strong oxidizing agents, Sodium/sodium oxides, Potassium, Hydrogen peroxide, Bromine trifluoride, Hydrazine, Halides, Strong reducing agents, Calcium acetylide

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions: Hydrogen chloride gas, Tin/tin oxides
Other decomposition products: No data available
In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

**Acute toxicity**

LD50 Oral - Rat - 700 mg/kg
LD50 Inhalation – Rat – male and female – 4 h – 2 mg/l
(OECD Test Guideline 436)
Remarks: Calculation method

Dermal: No data available

**Skin corrosion/irritation:** Causes skin burns

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Severe eye irritation
**Respiratory or skin sensitization:** May cause sensitization by skin contact.

**Germ cell mutagenicity**
**Carcinogenicity**
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available
**Specific target organ toxicity - single exposure:** No data available
**Specific target organ toxicity - repeated exposure:** Oral – May cause damage to organs through prolonged or repeated exposure – Cardio-vascular system
**Aspiration hazard:** No data available
**Additional Information**
RTECS: SP8700000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Cough, shortness of breath, Headache, Nausea

## 12. ECOLOGICAL INFORMATION

**Toxicity**
Toxicity to fish EC10 – Oncorhynchus mykiss (rainbow trout) – 0.076 mg/l – 27 d
LC50 – other fish – 9 mg/l – 96 h
Toxicity to Daphnia and other aquatic invertebrates:
EC50 – Daphnia (water flea) – 31–88 mg/l – 48 h
**Persistence and degradability:** No data available
**Bioaccumulative potential:** No data available
**Mobility in soil:** No data available
**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**
**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
**Contaminated packaging:** Dispose of as unused product.

## 14. TRANSPORT INFORMATION

**DOT (US)**
UN number: 3260 Class: 8 Packing group: II
Proper shipping name: Corrosive solid, acid, inorganic, n.o.s. (Tin dichloride)
Reportable Quantity (RQ):
Poison Inhalation Hazard: No
**IMDG**
UN number: 3260 Class: 8 Packing group: II EMS-No: F-A, S-B
Proper shipping name: Corrosive solid, acid, inorganic, n.o.s. (Tin dichloride)
**IATA**
UN number: 3260 Class: 8 Packing group: II
Proper shipping name: Corrosive solid, acid, inorganic, n.o.s. (Tin dichloride)

## 15. REGULATORY INFORMATION

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

| | CAS-No | Revision Date |
|---|---|---|
| Tin dichloride | 7772-99-8 | 1993-04-24 |

**Pennsylvania Right To Know Components**

| | CAS-No | Revision Date |
|---|---|---|
| Tin dichloride | 7772-99-8 | 1993-04-24 |

**New Jersey Right To Know Components**

| | CAS-No | Revision Date |
|---|---|---|
| Tin dichloride | 7772-99-8 | 1993-04-24 |

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 16. OTHER INFORMATION

**Full text of H-Statements referred to under sections 2 and 3.**

| | |
|---|---|
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Acute aquatic toxicity |
| Aquatic Chronic | Chromic aquatic toxicity |
| Eye Dam. | Serious eye damage |
| H302 + H332 | Harmful if swallowed or if inhaled |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H341 | Suspected of causing genetic defects |

**HMIS Rating**

| | |
|---|---|
| Health hazard: | 2 |
| Chronic Health Hazard: | * |
| Flammability: | 0 |
| Physical Hazard: | 0 |

**NFPA Rating**

| | |
|---|---|
| Health hazard: | 2 |
| Fire Hazard: | 0 |
| Reactivity Hazard: | 0 |

**Further information**

Information contained in this safety data sheet is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed no warranty of any kind is made with respect thereto. Since the Company shall have no control of the use of the product described herein, the company assumes no liability for loss or damage incurred from the proper or improper use of such product.

| | |
|---|---|
| Revision Date: | 05/23/2018 |
| Print Date: | 11/03/2020 |