Material Safety Data Sheet  
Iodoform, 99+%  

Section 1 - Chemical Product and Company Identification  

**MSDS Name:** Iodoform, 99+%
**Synonyms:** Triiodomethane

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-47-8</td>
<td>Iodoform</td>
<td>99+</td>
<td>200-874-5</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: yellow crystals.
**Warning!** Harmful if swallowed. Causes eye irritation. Harmful if inhaled. May be absorbed through intact skin. May cause respiratory tract irritation. May cause dermatitis.
**Target Organs:** None.

**Potential Health Effects**

**Eye:** Causes eye irritation.
**Skin:** May be absorbed through the skin. May cause dermatitis.
**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
**Inhalation:** Harmful if inhaled. May cause respiratory tract irritation.
**Chronic:** Not available.

Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed.
**Skin:** Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never
give anything by mouth to an unconscious person. Get medical aid immediately. **Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. **Extinguishing Media:** Use water fog, dry chemical, carbon dioxide, or regular foam. Use agent most appropriate to extinguish fire. **Flash Point:** 204 deg C (399.20 deg F) **Autoignition Temperature:** Not available. **Explosion Limits, Lower:** Not available. **Upper:** Not available. **NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 1

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

### Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. **Storage:** Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate general or local exhaust ventilation to keep
Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>0.6 ppm TWA</td>
<td>0.6 ppm TWA; 10 mg/m3 TWA</td>
<td>none listed</td>
</tr>
</tbody>
</table>

**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 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

Section 9 - Physical and Chemical Properties

**Physical State:** Crystals

**Appearance:** yellow

**Odor:** pungent odor

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** 13.6

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** 120.00 - 123.00 deg C

**Decomposition Temperature:** 204 deg C

**Solubility:** Slightly soluble.

**Specific Gravity/Density:** 4.0080g/cm3

**Molecular Formula:** CHI3

**Molecular Weight:** 393.72

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** High temperatures, incompatible materials, temperatures above 200°C, strong oxidants.

**Incompatibilities with Other Materials:** Strong oxidizing agents, strong bases, alkali metals, magnesium, lithium, acetone, silver nitrate, mercuric oxide, calomel, tannin, balsam peru.

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, hydrogen iodide.

**Hazardous Polymerization:** Has not been reported.

Section 11 - Toxicological Information
**RTECS#:**  
**CAS# 75-47-8: PB7000000**  
**LD50/LC50:**  
**CAS# 75-47-8:**  
- Inhalation, rat: LC50 = 165 ppm/7H;  
- Inhalation, rat: LC50 = 183 ppm/7H;  
- Oral, mouse: LD50 = 470 mg/kg;  
- Oral, rabbit: LD50 = 450 mg/kg;  
- Oral, rat: LD50 = 355 mg/kg;  
- Skin, rat: LD50 = 1184 mg/kg;  

**Carcinogenicity:**  
CAS# 75-47-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.  

**Epidemiology:** No data available.  
**Teratogenicity:** No data available.  
**Reproductive Effects:** No data available.  
**Mutagenicity:** No data available.  
**Neurotoxicity:** No data available.  
**Other Studies:**

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**Section 12 - Ecological Information**

**Ecotoxicity:** Fish: Fathead Minnow: LC50=2.92mg/l; 96 hour; Flow through bioassay@25.1°C Water hardness 42.2mg/l CaCO3, pH 7.7  
**Environmental:** EC50 Pimephales promelas (fathead minnows) 2.01 mg/l/96 hr, flow-through bioassay @ 25.1 deg C, pH 7.7, water hardness 44.2 ml/l CaCO3 /Purity 98%. /EC50 was based upon loss of equilibrium as manifested by the fish’s inability to maintain an upright position when swimming./ [REF-32, p.40]  
**Physical:** Would probably be moderately mobile in soil. It is not expected to significantly bioaccumulate in aquatic organisms  
**Other:** No information available.

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**Section 13 - Disposal Considerations**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
**RCRA P-Series:** None listed.  
**RCRA U-Series:** None listed.

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**Section 14 - Transport Information**  
**IATA**
<table>
<thead>
<tr>
<th>Shipping Name:</th>
<th>Not regulated as a hazardous material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class:</td>
<td></td>
</tr>
<tr>
<td>UN Number:</td>
<td></td>
</tr>
<tr>
<td>Packing Group:</td>
<td></td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

**Hazard Symbols:**
- XN

**Risk Phrases:**
- R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

**Safety Phrases:**
- S 24/25 Avoid contact with skin and eyes.

Section 16 - Additional Information

**MSDS Creation Date:** 6/29/1998  
**Revision #4 Date:** 10/03/2005

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