SAFETY DATA SHEET

Preparation Date: 8/30/2016  Revision Date: 8/30/2016  Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: I2031
Product Name: IODOFORM, USP

Other means of identification

Synonyms:
- Carbon triiodide
- Triiodomethane

CAS #: 75-47-8
RTECS #: PB7000000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
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)
- Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Gases)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Label elements

Warning

Hazard statements
- Harmful if swallowed
- Harmful in contact with skin
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water
Call a POISON CENTER or doctor/physician if you feel unwell
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

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

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>100</td>
</tr>
</tbody>
</table>

3. COMPOSITION/INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Product code: I2031 Product name: IODOFORM, USP
Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
Causes serious eye irritation. Causes skin irritation. May cause irritation of respiratory tract. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May affect the liver. It may affect the blood. May affect the cardiovascular system. Hypotension. Weak, rapid pulse or rapid heart rate (Tachycardia). Dyspnea (Difficulty breathing and shortness of breath). May affect eyes/vision. May affect behavior/central nervous system.

**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**

**Hazardous Combustion Products:**
If this product is involved in a fire the following can be released: Carbon monoxide, Carbon dioxide, Hydrogen iodide, Iodine.

**Specific hazards:**
When heated to decomposition it emits toxic fumes of Hydrogen iodide.

**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.

---

**Product code:** I2031  
**Product name:** IODOFORM, USP
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

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 into suitable containers for disposal. 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. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


Incompatible Materials:
- Oxidizing agents
- Strong bases
- Alkalis
- calomel
- tannin
- Lithium
- Acetone
- Lead salts
- Metallic salts
- Mercuric oxide
- Silver nitrate
- Balsam Peru
- Hexamethylenetetramine

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

Product code: I2031  Product name: IODOFORM, USP
United States

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>None</td>
<td>= 10 mg/m³ TWA</td>
<td>= 0.6 ppm TWA</td>
<td>None</td>
</tr>
</tbody>
</table>

Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>= 0.6 ppm TWA</td>
<td>= 0.6 ppm TWA</td>
<td>0.6 ppm TWA</td>
<td>0.6 ppm TWAEV</td>
</tr>
</tbody>
</table>

Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>10 mg/m³ TWA</td>
<td>= 0.6 ppm TWA</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

Engineering measures to reduce exposure:
Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

- **Eye protection:** Goggles or Safety glasses with side-shields
- **Skin and body protection:** Chemical resistant apron. Long sleeved clothing. Gloves. Boots.
- **Respiratory protection:** Wear respirator with dust filter.
- **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.

**Physical and chemical properties**

**Physical state:** Solid
**Appearance:** Crystalline. Powder.  **Color:** Yellow.
**Odor:** Characteristic. Disagreeable.  **Taste:** No information available.
**Molecular/Formula weight:** 393.73 g/mole  **Formula:** CHI₃
**Flammability:** No information available  **Flashpoint (°C/°F):** No information available.
**Flash Point Tested according to:** Not available  **Autoignition Temperature (°C/°F):** No information available
**Upper Explosion Limit (%):** No information available  **Lower Explosion Limit (%):** No information available
**Boiling point/range(°C/°F):** 218°C (424.4°F)  **Density (g/cm³):** No information available
**Specific gravity:** 4.008  **Vapor pressure @ 20°C (kPa):** No information available
**Evaporation rate:**

**Product code:** I2031  **Product name:** IODOFORM, USP
Reactivity
Reactive with oxidizing agents
Reactive with alkalis
Decomposes violently @400°F (204°C)
Decomposes at high temperature with evolution of Iodine

Chemical stability
Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Incompatible Materials: Oxidizing agents
Strong bases
Alkalis
calomel
tannin
Lithium
Acetone
Lead salts
Metallic salts
Mercuric oxide
Silver nitrate
Balsam Peru
Hexamethylenetetramine


Product code: I2031 Product name: IODOFORM, USP
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Inhalation. Ingestion.

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
<th>LC50/inhalation/rat</th>
<th>Other LD50 or LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>335 mg/kg Oral LD50 Rat (LOLI)</td>
<td>470 mg/kg Oral LD50 Mouse</td>
<td>No information available</td>
<td>165 ppm Inhalation LC50 Rat 7 h</td>
<td>487 mg/kg Oral LD50 Guinea Pig</td>
</tr>
</tbody>
</table>

Product Information

LD50/oral/rat  = VALUE- Acute Tox Oral = 335  mg/kg

LD50/oral/mouse = Value - Acute Tox Oral = 470  mg/kg

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

LD50/dermal/rat  VALUE -Acute Tox Dermal = 1184  mg/kg

LC50/inhalation/rat  VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = 165  ppm (7-hr)

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

Symptoms

Skin Contact: Causes skin irritation. Harmful in contact with skin. Harmful if absorbed through skin.

Eye Contact: Causes serious eye irritation.

Inhalation May cause irritation of respiratory tract.

Product code: I2031  Product name: IODOFORM, USP
Ingestion

May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. May affect the cardiovascular system (tachycardia). May affect the cardiovascular system (hypotension). May affect respiration (dyspnea - difficulty breathing and shortness of breath). May cause vision disturbances. May affect behavior/central nervous system (convulsions, tremors, confusion). It may affect behavior/central nervous system (irritability). May affect behavior/central nervous system (somnolence, tremor, hallucinations). May affect behavior/central nervous system (ataxia). May cause headache.

Aspiration hazard

No information available.

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

Chronic Toxicity

Prolonged or repeated ingestion may affect the liver. Prolonged or repeated ingestion may affect the blood (changes in red blood cell count).

Sensitization:

No information available.

Mutagenic Effects:

Experiments with bacteria and/or yeast have shown mutagenic effects
Mutations in microorganisms

Carcinogenic effects:

Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</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>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

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 Respiratory system.
STOT - repeated exposure No information available.
Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Iodoform - 75-47-8
Freshwater Fish Species Data: 2.79-3.06 mg/L LC50 Pimephales promelas 96 h flow-through 1
Persistence and degradability: No information available
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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Class: No information available
- Packing group: No information available
- Emergency Response Guide Number: No information available
- Marine Pollutant: No data available
- DOT RQ (lbs): No information available
- Special Provisions: No Information available
- Symbol(s): No information available
- Description: No information available

TDG (Canada)
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Marine Pollutant: No Information available
- Description: No information available

ADR
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Packing Group: No information available
- Subsidiary Risk: No information available

IMO / IMDG
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Marine Pollutant: No information available

Product code: I2031  Product name: IODOFORM, USP
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</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>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>Present</td>
<td>Present KE-34308</td>
<td>Present</td>
<td>Present (2)-44</td>
<td>Present</td>
<td>Present</td>
<td>Present 200-874-5</td>
</tr>
</tbody>
</table>

U.S. Regulations

**Iodoform**

- Massachusetts RTK: Present
- New Jersey RTK Hazardous Substance List: 1030
- Pennsylvania RTK: Present
- Minnesota - Hazardous Substance List: Present
- California Directors List of Hazardous Substances: Present


**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>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
D1B  Toxic materials
D2B  Toxic materials

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>WHIMHAZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td></td>
<td>D1A</td>
</tr>
</tbody>
</table>

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>CAS-No.</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA Schedule I - Toxic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

R-phrase(s)
R36/37/38 - Irritating to eyes, respiratory system and skin.
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

S-phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 - Wear suitable gloves.
S46 - If swallowed, seek medical advice immediately and show this container or label.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodoform</td>
<td>75-47-8</td>
<td></td>
<td>No information</td>
<td></td>
</tr>
</tbody>
</table>

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

Indication of danger:
Xn - Harmful.
Xi - Irritant.

<table>
<thead>
<tr>
<th>Xn</th>
<th>Xi</th>
</tr>
</thead>
</table>

16. OTHER INFORMATION

Preparation Date: 8/30/2016

Product code: I2031  Product name: IODOFORM, USP
Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet