



Health	2
Fire	0
Reactivity	0
Personal Protection	E

Material Safety Data Sheet Iodoform MSDS

Section 1: Chemical Product and Company Identification

Product Name: Iodoform

Catalog Codes: SLI1012, SLI1435

CAS#: 75-47-8

RTECS: PB7000000

TSCA: TSCA 8(b) inventory: Iodoform

CI#: Not available.

Synonym: Triiodomethane; Carbon Triiodide;

Chemical Name: Methane, triiodo

Chemical Formula: CHI₃

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

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US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Iodoform	75-47-8	100

Toxicological Data on Ingredients: Iodoform: ORAL (LD50): Acute: 355 mg/kg [Rat]. 470 mg/kg [Mouse]. 450 mg/kg [Rabbit]. DERMAL (LD50): Acute: 1184 mg/kg [Rat]. DUST (LC50): Acute: 165 ppm 7 hours [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: When heated to decomposition it emits toxic fumes of Hydrogen Iodide.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

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.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 0.6 (ppm) from OSHA (PEL) [United States]

TWA: 0.6 (ppm) from ACGIH (TLV) [United States]

TWA: 0.6 from NIOSH

TWA: 10 (mg/m³) from OSHA (PEL) [United States]

Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Crystalline solid. Powdered solid.)

Odor: Characteristic. Disagreeable.

Taste: Not available.

Molecular Weight: 393.73 g/mole

Color: Yellow.

pH (1% soln/water): Not available.

Boiling Point: 218°C (424.4°F)

Melting Point: 119°C (246.2°F)

Critical Temperature: Not available.

Specific Gravity: 4.008 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: 13.6 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility:

Easily soluble in acetone.

Soluble in diethyl ether.

Very slightly soluble in cold water.

Soluble in acetic acid.

Freely soluble in benzene.

Slightly soluble in petroleum ether.

Solubility in water: 100 mg/l @ room temperature.

Solubility in ether: 13.6 g/100 ml ether @ 25 deg. C.

Solubility in ethanol: 7.8 g/100 ml ethanol @ 25 deg. C.

One gram dissolves in 60 ml cold alcohol, 16 ml boiling alcohol, 10 ml chloroform, 7.5 ml ether, 80 ml glycerol, 3 ml carbon disulfide, 34 ml olive oil.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, alkalis.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Incompatible with calomel, tannin, Balsam Peru, lithium, acetone, alkalis (strong bases), lead salts, oxidizing agents, metallic salts (e.g. Mercuric oxide, Silver nitrate), hexamethylenetetramine.

Decomposes violently @ 400 deg. F (204 deg. C).

Decomposes at high temperature with evolution of Iodine.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 355 mg/kg [Rat].

Acute dermal toxicity (LD50): 1184 mg/kg [Rat].

Acute toxicity of the dust (LC50): 165 7 hours [Rat].

Chronic Effects on Humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: May cause skin irritation. May cause dermatitis.

Eyes: May cause eye irritation.

Inhalation: May cause respiratory tract and mucous membrane irritation.

Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea. May affect behavior/central nervous system/nervous system (confusion, somnolence, seizures, excitation, tremor, irritability, headache, hallucinations, poor muscle coordination, respiration (dyspnea, respiratory stimulation), cardiovascular system (tachycardia, hypotension) and cause visual disturbances.

Chronic Potential Health Effects:

Chronic ingestion: Prolonged or repeated ingestion may affect the liver, kidneys, blood

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:

Illinois toxic substances disclosure to employee act: Iodoform

Rhode Island RTK hazardous substances: Iodoform

Pennsylvania RTK: Iodoform

Minnesota: Iodoform

Massachusetts RTK: Iodoform

New Jersey: Iodoform

California's Director's List of Hazardous Substances: Iodoform

TSCA 8(b) inventory: Iodoform

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).

DSCL (EEC):

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R36/38- Irritating to eyes and skin.

S2- Keep out of the reach of children.

S36/37- Wear suitable protective clothing and gloves.

S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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