

## Difluoroiodomethane Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DIFLUOROIODOMETHANE

CAS number: 1493-03-4

Product code: VCDFIM

Use / description of product: R&D use only

Company name: Valliscor LLC, 1110, NE Circle Blvd., Bldg. 11, Corvallis, OR 97330, USA

Telephone: (+1)-541-286-5082

Emergency Phone: (+1)-800-255-3924 (chemtel)

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity, Oral (Category 4)

Skin corrosion/irritation (Category 2)

Serious eye damage (Category 2A)

Respiratory tract irritation (Category 3)

#### GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing fume/ gas/ mist/ vapours/ spray.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

---

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Formula: CHF<sub>2</sub>I

Molecular Weight: 177.92

CAS No.	Description	Concentration
1493-03-4	Difluoroiodomethane	> 98%

### 4. FIRST AID MEASURES (SYMPTOMS)

#### 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

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.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

---

### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Use carbon dioxide, dry chemical powder, alcoholresistant or polymer foam.

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## Unusual fire and explosion hazards/decomposition of product

Emits toxic fumes under fire conditions.

---

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage if safe to do so.

### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

---

## 7. HANDLING AND STORAGE

**Handling requirements:** Avoid direct contact with the substance. Ensure there is exhaust ventilation of the area. Avoid the formation or spread of mists in the air only use in fume hood.

**Storage conditions:** Store in a cool and well-ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal Protective Equipment

#### Respiratory Protection

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

#### Hand/ Skin Protection

Avoid all direct contact with product. Wear chemical resistant gloves. Wear protective clothing and boots. After contact with skin, wash immediately.

#### Eye/face Protection

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odor	No data available
Odor threshold:	No data available
Melting Point/ Freezing Point:	-122°C
Boiling point range:	21.6°C
Flash Point:	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Flammability or Explosive limits	No data available
Vapor pressure	No data available
Relative density:	2.4 g/mL
Solubility(ies)	No data available
MW:	112.93
Ignition temperature:	No data available
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Viscosity	No data available
Decomposition temperature	No data available
pH	No data available

---

## 10. STABILITY AND REACTIVITY

### Chemical Stability:

Stable under normal conditions.

### Possibility of hazardous reaction:

No data available

### Conditions to avoid:

No data available

### Materials to avoid:

Strong oxidizing agents, and metals.

### Hazardous decomposition products:

May evolve carbon monoxide, carbon dioxide, hydrogen fluoride, and hydrogen iodide.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

No data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

Causes serious eye irritation

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

### Aspiration hazard

no data available

### Exposure Routes

Irritating to skin, eyes, and respiratory system. May have harmful effects if inhaled or swallowed.

To the best of our knowledge, the health hazards of this material have not been fully investigated.

## 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Persistence and degradability

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

**13. DISPOSAL CONSIDERATIONS**

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

---

**14. TRANSPORT INFORMATION**

**DOT**

Classed nonhazardous for shipping.

**IMDG**

Classed nonhazardous for shipping.

**IATA**

Classed nonhazardous for shipping.

---

**15. REGULATORY INFORMATION**

**SARA 302 Components**

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

## **SARA 313 Components**

SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

## **New Jersey Right to Know Components**

This product may contain a chemical on the New Jersey Right to Know Components List.

Difluoroiodomethane **CAS 1493-03-4**

## **California Prop. 65 Components**

This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

---

## **17. OTHER INFORMATION**

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.