



An ISO 9001 : 2008 Certified Manufacturing Co.

**Infinium  
Pharmachem  
Pvt. Ltd.**

### Corporate Office Address

Suite # 205, Sigma Prime, Second Floor Nr. Sardar Patel Statue  
Vallabh Vidyanagar, Dist. Anand - 388 121 Gujarat, India.  
Tele/ Fax : ++91-2692-238849 , 238850  
Email: info@infiniumpharmachem.com infinium\_11@yahoo.com  
Web : www.infiniumpharmachem.com

### R.O. & Factory Address:-

Plot No.38 - 39 GIDC Sojitra - 387240 Dist. Anand  
Gujarat - India Tel / Fax : ++91-2697- 234987

## MATERIAL SAFETY DATA SHEET

### METHYL IODIDE

#### 1.1 Product Identifiers:

**Product Name** : **Methyl Iodide**

**CAS No** : **74-88-4**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

**Supplier:** Infinium Pharmachem Pvt. Ltd.(AN ISO 9001:2008 CERTIFIED CO.)  
38, G.I.D.C, Sojitra

Dist: Anand

Gujarat, India

**Tel** : 0091-2697-234987

**Fax** : 0091-2697-234987

**Email** : [info@infiniumpharmachem.com](mailto:info@infiniumpharmachem.com)

**Synonyms** : Iodomethane

**CAS No.** : 74-88-4

**Molecular Weight** : 141.94 g/mol

**Chemical Formula** : CH<sub>3</sub>I



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## 3.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315

Respiratory sensitization (Category 1), H334

Skin sensitization (Category 1), H317

Carcinogenicity (Category 2), H351

Acute toxicity, Dermal (Category 4), H312

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Oral (Category 3), H301

Specific target organ toxicity -single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 15

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

T Toxic R23/25

Xn Harmful R21

Xi Irritant R37/38

For the full text of the R-phrases mentioned in this Section, see Section 15

## 3.2 Label elements

### Labeling according Regulation (EC) No 1272/2008

Pictogram





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#### 4.1 Description of first aid measures

**Eye Contact:** IMMEDIATELY FLUSH EYES with gently running water for at least twenty to thirty (20-30) minutes, holding eyelids open while flushing. DO NOT INTERRUPT FLUSHING. Take care not to flush contaminated water into unaffected eye. Wear protective gloves to avoid contamination during first aid procedures. GET MEDICAL ATTENTION IMMEDIATELY.

**Skin Contact:** Under running water, remove contaminated clothing (including shoes, watches, belts and rings). IMMEDIATELY FLUSH the exposed area with gently running water for at least twenty to thirty (20-30) minutes. Take care to completely clean folds, creases, groin, under fingernails. Wear protective gloves to avoid contact. GET MEDICAL ATTENTION IMMEDIATELY.

**Serious Skin Contact:** Not available.

**Inhalation:** IMMEDIATELY remove to fresh air (caution must be used by rescuers to avoid exposure). Give oxygen for breathing difficulty. If breathing has STOPPED give artificial respiration. Avoid direct contact; use a mouth guard. If breathing and pulse are ABSENT, give CPR. GET MEDICAL ATTENTION IMMEDIATELY. Stay with casualty until medical help arrives. Second rescuer should obtain oxygen equipment and ambulance.

**Serious Inhalation:** Not available.

**Ingestion:** DO NOT INDUCE VOMITING. If casualty is alert and not convulsing, rinse mouth with water and give 1 to 2 glasses of water or milk to dilute material. IMMEDIATELY OBTAIN MEDICAL ATTENTION. If spontaneous vomiting occurs; have casualty lean forward with head down to avoid breathing in of vomitus, rinse mouth thoroughly and administer 1 to 2 glasses of water or milk. If breathing has STOPPED give artificial respiration. If breathing and pulse are ABSENT, begin CPR immediately.

**Serious Ingestion:** Not available.

#### 4.2 Most Important symptoms & efforts, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section no 3.3) or section 11.



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#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

#### 5.1 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. Substance is noncombustible.

#### 5.2 Extinguishing Media

Use agent most appropriate to extinguish fire.

Autoignition Temperature: Not available

Flash Point: -28 deg°C (-18.40 deg F)

Explosion Limits:

Lower: Not available

Explosion Limits:

Upper: Not available

NFPA Rating: Not published

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2 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.



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### **6.3 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.

### **6.4 Reference to other sections**

For disposal see section 13.

### **7.1 Precautions for safe Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.  
Keep away from sources of ignition. No smoking.  
Take measures to prevent the buildup of electrostatic charge.

### **7.2 Conditions for safe Storage, including any incompatibilities**

Store in cool place.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

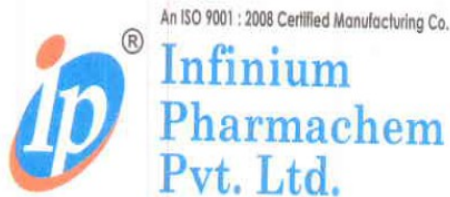
Recommended storage temperature: 2 -8 °C  
Light sensitive.

### **8.1 Control parameters**

Components with workplace control Parameters.

### **8.2 Exposure controls**

#### **Engineering Controls:**



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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 Protective Equipment:

**Eyes:** Wear chemical goggles.

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

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

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Iodomethane	2ppm TWA; skin-potential for cutaneous absorption	2 ppm TWA; 10mg/m <sup>3</sup> TWA 100 ppm IDLH	5ppm TWA; 28 mg/m <sup>3</sup> TWA

### OSHA Vacated PELs:

Sodium Iodide: Iodomethane: 2 ppm TWA; 10 mg/m<sup>3</sup> TWA

### 9.1 Information on Basic physical & chemical properties

<b>Physical State</b>	: Liquid.
<b>Appearance</b>	: Colorless.
<b>Odor</b>	: Ethereal. Sweet. Pungent.
<b>pH</b>	: Not available.
<b>Vapor Pressure</b>	: 400mmHg @ 25 °C
<b>Vapor Density</b>	: 4.89
<b>Evaporation Rate</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Boiling Point</b>	: 108 °F (42 °C)
<b>Freezing/Melting Point</b>	: -66.5 °C



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<b>Autoignition Temperature</b>	: Not applicable.
<b>Flash Point</b>	: Not applicable.
<b>Decomposition Temperature</b>	: 536 °F (280 °C)
<b>Explosion Limits, Lower</b>	: Not available.
<b>Upper</b>	: Not available.
<b>Water Solubility</b>	: 2%
<b>Specific Gravity/Density</b>	: 2.279 g/cm <sup>3</sup>
<b>Molecular Formula</b>	: CH <sub>3</sub> I
<b>Molecular Weight</b>	: 141.95
<b>Solvent Solubility</b>	: Alcohol, Benzene, Ether, Acetone, Carbon Tetrachloride.

## 9.2 Other safety Information

No data available

## 10.1 Reactivity

Stable at normal temperatures and pressure.

## 10.2 Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

## 10.3 Incompatibilities

Bases, metals, oxidizing materials, metal salts, combustible materials

## 10.4 Hazardous Decomposition

Thermal decomposition products: acid halides, iodinated compounds, oxides of carbon

## 10.5 Polymerization

Will not polymerize.





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### 11.1. Information on toxicological effects

**Irritation Data:** 1 gm/10 minute(s) skin-human mild; 1 gm/30 minute(s) skin-rat mild; 500 mg skin-rabbit severe; 100 mg eyes-rabbit severe

**Toxicity Data:** 1300 mg/m<sup>3</sup>/4 hour(s) inhalation-rat LC50; 800 mg/kg skin-guinea pig LD50; 76 mg/kg oral-rat LD50 (IARC)

**Carcinogen Status:** IARC: Human No Adequate Data, Animal Limited Evidence, Group3; ACGIH: A4 -Not Classifiable as a Human Carcinogen (Iodides)

**Local Effects:** Irritant: inhalation, skin, eyes

**Acute Toxicity Level:** Toxic: inhalation, dermal absorption, ingestion

**Target Organs:** Central nervous system

**Medical Conditions Aggravated by Exposure:** hormonal disorders

**Tumogenic Data:** Available

**Mutagenic Data:** Available.

**Reproductive Effects Data:** Available

**Additional Data:** May cross the placenta. May be excreted in breast milk. May cross react with similar compounds.

### 12.1. Toxicity

Toxicity information : Not established.

### 12.2. Persistence – degradability



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Persistence – degradability : Biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential 1 : Not established.

### 12.4. Mobility in soil

Mobility in soil : Not established.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfill the criteria to be identified as PBT substance or vPv B substance according to Annex XIII of Regulation REACH

### 12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

## 13.1 Waste treatment methods

### Product

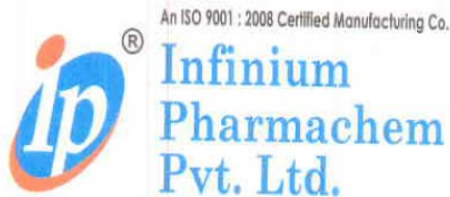
Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

## 14.1. Land transport (ADR-RID)

Proper shipping name : METHYL IODIDE  
UN N° : 2644  
H.I. nr : 66  
ADR – Class : 6.1  
Labeling - Transport: 6.1 : Toxic substances.



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ADR - Classification code : T1  
ADR - Group : I  
ADR - Packing instructions : P602  
ADR - Limited Quantity : 0  
ADR - Tunnel code: C/D : Tank carriage: Passage forbidden through tunnels  
category C, D and E.  
Other carriage : Passage forbidden through tunnels of category D and E.

### 14.2 Sea transport (IMDG) [English only]

Proper shipping name : METHYL IODIDE  
UN N°: 2644  
IMO-IMDG - Class or division: 6.1 : Toxic substances.  
IMO-IMDG - Packing group : I  
IMO-IMDG - Packing instructions : P001  
IMO-IMDG - Limited quantities : None  
IMO-IMDG - Marine pollution : No  
EMS-Nr: F-A S-A

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
H301	Toxic if swallowed.
H301 + H331	Toxic if swallowed or if inhaled
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.



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H351	Suspected of causing cancer.
Resp. Sens.	Respiratory sensitization
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity -single exposure

Full text of R-phrases referred to under sections 2 and 3

T	Toxic
R21	Harmful in contact with skin.
R23/25	Toxic by inhalation and if swallowed.
R37/38	Irritating to respiratory system and skin.
R40	Limited evidence of a carcinogenic effect

**MSDS Creation Date:** 01-01-2015

**Revision #1 Date:** 31-12-2017

### Disclaimer:

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