



An ISO 9001 : 2008 Certified Manufacturing Co.

**Infinium  
Pharmachem  
Pvt. Ltd.**

**Corporate Office Address**

Suite # 205, Sigma Prime, Second Floor Nr. Sardar Patel Statue  
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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

**A MATERIAL SAFETY DATA SHEET**

**IODOACETIC ACID**

**1.1 Product Identifiers:**

**Product Name** : Iodoacetic Acid

**CAS No** : 64-69-7

**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** : 2-iodoacetic acid; Acetic acid; 2-iodo-Acetic acid;  
iodo-Acide iodoacetique; acido iodoacetico;  
CH<sub>2</sub>ICOOH; Iodessigsäure; iodoacetic acid;  
Monoiodoacetic acid; NSC 2125;

**CAS No.** : 64-69-7

**Molecular Weight** : 185,95 g/mol

**Chemical Formula** : C<sub>2</sub>H<sub>3</sub>IO<sub>2</sub>

**3.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Skin corrosion (Category 1A), H314

Acute toxicity, Oral (Category 3), H301

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

T	Toxic	R25
C	Corrosive	R35

For the full text of the R-phrases mentioned in this Section, see Section 16.

**3.2 Label elements**

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

Pictogram



Signal word Danger

Hazard statement(s)

H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.

Precautionary statement(s)

P280	wear protective gloves/clothing/eye protection/face protection.
P301+310	IF SWALLOWED: immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.



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Continuerinsing.Immediately call a POISON CENTER or  
doctor/ physician.

Supplemental Hazard      None

Statements

### 3.3 Other hazards

Vesicant.

### 4.1 Description of first aid measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. 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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician..

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available



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#### 5.1 Extinguishing Media:

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen iodide.

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fighting if necessary.

#### 5.4 Further Information

No data available.

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

Wear respiratory protection. 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.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. 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 formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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



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Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature: -20 °C

### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8.1 Control parameters

#### Components with workplace control Parameters.

#### 8.2 Exposure Controls

##### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

##### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied



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air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 9.1 Information on Basic physical & chemical properties

a) Appearance	Form: powder
b) Odor	no data available
c) Odor Threshold	no data available
d) pH	1,4 at 50 g/l at 20 °C
e) Melting point/freezing Point	Melting point/range: 77 - 79 °C
f) Initial boiling point and Boiling range	208 °C at 1.013 hPa
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower Flammability or explosive limits	no data available
k) Vapor pressure	8,56 hPa
l) Vapor density	no data available
m) Relative density	4,600 g/cm <sup>3</sup>
n) Water solubility	no data available
o) Partition coefficient: n-octanol /water	no data available
p) Auto ignition Temperature	no data available
q) Decomposition Temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

### 9.2 Other safety Information

Bulk Density 890 g/l

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions



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no data available

#### 10.4 Conditions to avoid

no data available.

#### 10.5 Incompatible materials

Strong bases, Strong reducing agents.

#### 10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

#### 11.1 Information on toxicological effects

##### Acute toxicity

no data available

##### Skin corrosion/irritation

no data available.

##### Serious eye damage/eye irritation

no data available

##### Respiratory or skin sensitization

##### Germ cell mutagenicity

Hamster

fibroblast

Cytogenetic analysis

mouse

Ascites tumor

DNA inhibition

Human

HeLa cell



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DNA inhibition

#### **Carcinogenicity**

Carcinogenicity - mouse - Skin

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors.

Tumorigenic: Tumors at site or application.

Carcinogenicity - mouse - Subcutaneous

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Carcinogenicity - mouse - Skin

Tumorigenic: Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors.  
Tumorigenic: Tumors at

site or application.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

Reproductive toxicity - mouse - Oral

Paternal Effects: Other effects on male. Maternal Effects: Other effects. Specific Developmental

Abnormalities: Craniofacial (including nose and tongue).

Developmental Toxicity - mouse - Intramuscular

Specific Developmental Abnormalities: Craniofacial (including nose and tongue).

Developmental Toxicity - mouse - Intraperitoneal

Specific Developmental Abnormalities: Musculoskeletal system..

#### **Specific target organ toxicity - single exposure**

no data available

#### **Specific target organ toxicity - repeated exposure**





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no data available

#### **Aspiration hazard**

no data available

#### **Additional Information**

RTECS: TT2975000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and

skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi,

pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath,

Headache, Nausea, Vomiting, Symptoms may be delayed., To the best of our knowledge, the chemical,

physical, and toxicological properties have not been thoroughly investigated.

#### **12.1 Persistence and degradability**

no data available

#### **12.2 Bioaccumulative potential**

no data available

#### **12.3 Mobility in soil**

no data available

#### **12.4 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### **12.6 Other adverse effects**

No data available

#### **13.1 Waste treatment methods**



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## Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID: - 2923                      IMDG: - 2923                      IATA: - 2923

### 14.2 UN proper shipping name

ADR/RID :            CORROSIVE SOLID, TOXIC, N.O.S. (Iodoacetic acid)

IMDG :                CORROSIVE SOLID, TOXIC, N.O.S. (Iodoacetic acid)

IATA :                Corrosive solid, toxic, n.o.s. (Iodoacetic acid)

### 14.3 Transport hazard class (es)

ADR/RID: - 8(6.1)                      IMDG: - 8 (6.1)                      IATA: - 8 (6.1)

### 14.4 Packaging group

ADR/RID: - I                              IMDG: - I                              IATA: I

### 14.5 Environmental hazards

ADR/RID: no                              IMDG Marine pollutant: no                              IATA: no

### 14.6 Special precautions for user

no data available

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 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.**



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Acute Tox.	Acute toxicity
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
Skin Corr.	Skin corrosion

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

C	Corrosive
T	Toxic
R25	Toxic if swallowed.
R35	Causes severe burns..

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

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

#### **Disclaimer:**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Infinium Pharmachem Pvt Ltd be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Infinium Pharmachem Pvt Ltd has been advised of the possibility of such damages.*