

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### IODINE MONOCHLORIDE (FOR SYNTHESIS)

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : IODINE MONOCHLORIDE (FOR SYNTHESIS)

Product code : I0113200250  
 CAS No: 7790-99-0

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

Use : Industrial. For professional use only.

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

Company identification : SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : C; R34  
 Xn ; R42

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334  
 Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

Symbol(s)



Symbol(s) : C : Corrosive

R Phrase(s) : R34 : Causes burns.

R42 : May cause sensitization by inhalation.

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#### 2. Hazards identification -DSD (continued)

**S Phrase(s)** : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.  
 S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).

**Contains** : Iodine Monochloride

#### Labelling Regulation EC 1272/2008 (CLP)

#### Hazard pictograms



**Signal words** : Danger

**Hazard statements** : H314 : Causes severe skin burns and eye damage.  
 H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Precautionary statements

- **Prevention** : P285: In case of inadequate ventilation wear respiratory protection.  
 P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
 P264: Wash thoroughly after handling.
- **Response** : P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.  
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
 P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
 P342+P311: If experiencing respiratory symptoms : Call a POISON CENTER or doctor.  
 P363: Wash contaminated clothing before reuse.
- **Storage** : P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Contains** : Iodine Monochloride

#### 2.3. Other hazards

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 3. Composition/information on ingredients

Substance / Preparation		Preparation.				
Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Iodine Monochloride	: <=100	7790-99-0	233-236-7	----	----	R10 Xn; R22 Xi; R37/38-41 ----- Eye Dam 1 _ H318

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### IODINE MONOCHLORIDE (FOR SYNTHESIS)

#### 3. Composition/information on ingredients (continued)

Flam. Sol. 2 \_ H228  
 Acute Tox. 4 (oral) \_ H302  
 Skin Irrit. 2 \_ H315  
 STOT SE 3 \_ H335

#### 4. First aid measures

##### 4.1. Description of first aid measures

Inhalation	: If experiencing respiratory symptoms : Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.
Eye contact	: Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
Ingestion	: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Rinse mouth.

##### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use	: Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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##### 4.3. Indication of any immediate medical attention and special treatment needed

General information	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

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

Hazardous combustion products	: Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours.
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##### 5.3. Advice for fire-fighters

Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## MATERIAL SAFETY DATA SHEET (MSDS)

### IODINE MONOCHLORIDE (FOR SYNTHESIS)

#### 6. Accidental release measures

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

**For emergency responders** : Equip cleanup crew with proper protection.  
Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

##### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

##### 6.3. Methods and material for containment and cleaning up

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

##### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

**Handling** : Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

##### 7.2. Conditions for safe storage, including any incompatibilities

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage regulation** : Comply with applicable regulations.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

##### 7.3. Specific end use(s)

**Specific end use(s)** : None.

#### 8. Exposure controls/personal protection

##### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

• **Respiratory protection** : In case of inadequate ventilation wear respiratory protection.

## MATERIAL SAFETY DATA SHEET (MSDS)

### IODINE MONOCHLORIDE (FOR SYNTHESIS)

#### 8. Exposure controls/personal protection (continued)

- Hand protection : Wear protective gloves.
- Skin protection : Wear suitable protective clothing.
- Eye protection : Chemical goggles or face shield.
- Others : When using, do not eat, drink or smoke.

#### 8.2. Control parameters

Occupational Exposure Limits : No data available.

#### 9. Physical and chemical properties

##### 9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Dark reddish brown
Odour	: N/A
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 270C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 97.4 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: 5,5
Density [g/cm3]	: 3,24
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A

##### 9.2. Other information

## MATERIAL SAFETY DATA SHEET (MSDS)

### IODINE MONOCHLORIDE (FOR SYNTHESIS)

#### 9. Physical and chemical properties (continued)

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

#### 10. Stability and reactivity

##### 10.1. Reactivity

Reactivity	: Not established.
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##### 10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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##### 10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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##### 10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
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##### 10.5. Incompatible materials

Materials to avoid	: Strong acids. Strong bases.
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##### 10.6. Hazardous decomposition products

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.
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#### 11. Toxicological information

##### 11.1. Information on toxicological effects

Toxicity information	: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.
Acute toxicity	
• Inhalation	: Based on available data, the classification criteria are not met.
• Dermal	: Based on available data, the classification criteria are not met.
• Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Causes severe skin burns and eye damage.
Irritation	: Based on available data, the classification criteria are not met.

## MATERIAL SAFETY DATA SHEET (MSDS)

### IODINE MONOCHLORIDE (FOR SYNTHESIS)

#### 11. Toxicological information (continued)

<b>Sensitization</b>	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Mutagenicity</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	: Based on available data, the classification criteria are not met.

#### 12. Ecological information

##### 12.1. Toxicity

<b>Toxicity information</b>	: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.
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##### 12.2. Persistence - degradability

<b>Persistence - degradability</b>	: Biodegradable.
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##### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential</b>	: Not established.
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##### 12.4. Mobility in soil

<b>Mobility in soil</b>	: Not established.
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##### 12.5. Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
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##### 12.6. Other adverse effects

<b>Environmental precautions</b>	: Avoid release to the environment.
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#### 13. Disposal considerations

##### 13.1. Waste treatment methods

<b>General</b>	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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**MATERIAL SAFETY DATA SHEET (MSDS)**  
**IODINE MONOCHLORIDE (FOR SYNTHESIS)**

#### **14.1. Land transport (ADR-RID)**



	
	

<b>Proper shipping name</b>	: IODINE MONOCHLORIDE
<b>UN N°</b>	: 1792
<b>IMO-IMDG - Class or division</b>	: 8 : Corrosive substance.
<b>IMO-IMDG - Packing group</b>	: II
<b>IMO- IMDG - Packing instructions</b>	: P002
<b>IMO-IMDG - Limited quantities</b>	: 1 kg
<b>IMO-IMDG - Marine pollution</b>	: No
<b>EMS-Nr</b>	: F-A S-B



**MATERIAL SAFETY DATA SHEET (MSDS)**  
**IODINE MONOCHLORIDE (FOR SYNTHESIS)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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