



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers	
i	Product Name : Copper Iodide
ii	Chemical Formula : <chem>CuI</chem>
iii	CAS No. : 7681-65-4
iv	EC No. : 231-674-6
v	HSN Code : 28276090
vi	Hazardous : Yes
vii	Content : Minimum 99.0%
viii	Appearance : Light brown to Creamish white powder
1.2 Relevant identified uses of the substance	
i	Identified uses : Laboratory chemicals
1.3 Details of Manufacturer	
i	Company : Samrat Pharmachem Limited
ii	Address : Plot No. A2/3445, GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India.
iii	Phone : +91-7045456789 / 7046456789
iv	Email : contact@samratpharmachem.in
v	Webpage : www.samratpharmachem.com
1.4 Emergency Number	
	Emergency Phone : +91-7045456789 / 7046456789




2. HAZARD IDENTIFICATION

2.1 Classification of substance			
i	H302	Acute Oral Toxicity	: Harmful if swallowed (Category 4)
ii	H315	Skin Corrosion / Irritation	: Causes skin irritation (Category 2)
iii	H319	Eye Irritation	: Causes serious eye irritation/damage (Category 2)
iv	H335	Specific Target Organ Toxicity (Respiratory)	: May cause respiratory irritation; Single Exposure (Category 3)
v	H400	Acute Aquatic Hazard	: Toxic to Aquatic Life (Category 1)
vi	H410	Chronic Aquatic Hazard	: Toxic to Aquatic Life (Category 1)



Samrat Pharmachem Limited

Manufacturers & Exporters of Pharmaceutical Chemicals

2.2 GHS Label elements, including precautionary statements	
i	Pictogram : 
ii	Signal word : Warning
iii	Hazard Statement(s)
	H302 : Harmful if swallowed
	H315 : Causes skin irritation
	H319 : Causes serious eye irritation
	H335 : May cause respiratory irritation
	H410 : Very toxic to aquatic life with long lasting effects.
iv	Precautionary Statement(s)
	P273 : Avoid release to the environment
	P280 : Wear protective clothing, gloves, eye & face equipment
	P301 + P312 + P330 : IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
	P302 + P352 : IF ON SKIN: Wash with plenty of water.



2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
No data available

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances	
Molecular Weight	: 190.5 g/mol
Constituent Elements	: CuI





4. FIRST AID MEASURES

4.1 Symptoms	
i	Most important symptoms and effects, both acute and delayed
	Vomiting, Irritation, Cough, Dyspnoea, Causes severe eye damage. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.
ii	Indication of any immediate medical attention & special treatment needed
	If seeking medical attention, provide SDS document to physician.
4.2 Description of first aid measures	
i	Inhalation : If inhaled, move victim to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
ii	Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Rinse mouth out with water. If you feel still feel unwell, immediately make victim drink water (two glasses at most). Consult a doctor.
iii	Skin contact : Take off immediately all contaminated clothing. Wash skin with plenty of water. Cover the irritated skin with an emollient. If skin irritation occurs: Get medical advice/attention.
iv	Eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.



5. FIRE FIGHTING MEASURES

5.1 Extinguishing media	
i	Suitable : Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO2)
	Unsuitable : Water Jet.
ii	Special hazards : Hazardous combustion products: Under fire conditions, hazardous fumes will be present. Fire may cause evolution of: hydrogen iodide Ambient fire may liberate hazardous vapours.
iii	Special remarks on : Sufficient study not necessary.
iv	Advice for firefighters : Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.





v	Additional information	: Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
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6. ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment & emergency procedures
	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
6.2	Environmental precautions
	Do not let product enter drains. Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.
6.3	Methods and material for containment and cleaning up
	Cover drains. Cover spill with non-combustible material e.g. sand, mud & vermiculite. Observe possible material restrictions. Use gloves to take up dry. Dispose-off properly. Clean up affected area carefully.



7. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust, fume, gas, mist, vapours, and spray.
7.2	Conditions for safe storage, including any incompatibilities
	Keep container tightly closed in a dry, cool and well-ventilated place. Light sensitive. Keep in a dry place. Protect from direct sunlight. Incompatible Materials. Strong acids. Alkali metals. Oxidizing agent.
7.3	Specific end use(s)
	It is often used in the synthesis of fine chemicals, and as a heat and light stabilizer for nylon fabrics.





8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters	
	No data found
8.2 Exposure Controls	
i	<i>Appropriate engineering controls</i>
	Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe dust. Avoid contact with skin, eyes and clothes.
ii	<i>Personal protective equipment</i>
(a)	Eye / face protection
	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
(b)	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.
(c)	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.
(d)	Respiratory protection
	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
(e)	Control of environmental exposure
	Do not let product enter drains.



9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: Solid Colour: light brown to creamish white	Explosiveness	Not determined
Odour	Odourless	Vapour pressure	10 mmHg @ 656 °C
Odour threshold	Not determined	Relative vapour density at 20°C	Not determined
pH-value	Not Applicable	Relative density	Not determined
Melting/Freezing point	591°C	Solubilities	Not Determined
Boiling point	1290°C at 101.325 kPa	Partition coefficient (n-octanol/water)	Not Determined
Flash Point	Not determined	Auto/Self-ignition temperature	350°C
Evaporation rate	Not determined	Decomposition temperature	Not determined





Flammability	Does not ignite or propagate	Viscosity	Not determined
Density	5.67 g/cm ³	Poison Class	Not determined

10. STABILITY & REACTIVITY

(a)	Reactivity	:	Non-reactive under normal conditions. Reacts (slowly) with some metals
(b)	Chemical stability	:	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
(c)	Possible hazardous reactions	:	Violent reaction with: Alkali metals, Strong oxidiser, Strong alkali, Strong acid
(d)	Conditions to avoid	:	There are no specific conditions known which have to be avoided
(e)	Incompatible material	:	There is no additional information.
(f)	Hazardous decomposition products	:	Hydrogen iodide



11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects			
	Oral	LD50 Rat	2.000mg/kg
	Dermal	LD50 Rabbit	> 2.000 mg/kg
11.2 Corrosion Irritation			
	Serious eye damage / irritation		Causes serious eye irritation
	Respiratory or skin irritation		Shall not be classified as a respiratory or skin sensitizer.
	Germ cell mutagenicity		Mutagenicity tests are negative
	Carcinogenicity		Did not show carcinogenic effects in experiments
	Reproductive Toxicity		Not classified
11.3 Additional information			
i	No data available		





12. ECOLOGICAL INFORMATION

12.1 Toxicity			
i	Particulars	Type	Value
	Fish LC50	Oncorhynchus mykiss (rainbow trout)	193 µg/L
	Other aquatic invertebrates ErC 50	Algae	0.13 mg/L
12.2 Persistence and degradability			
(a)	Persistence and degradability		Biodegradability
(b)	Biodegradation		Not applicable
12.3 Bio accumulative potential			
	Copper iodide has low potential for bioaccumulation		
12.4 Mobility in Soil			
(a)	Partition coefficient n-octanol/water (Log Koc)		No data found
12.5 Results of PBT and vPvB assessment			
	In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment.		
12.6 Other adverse effects			
	Not known		



13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal recommendation's	
i	General instructions
	Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Dispose of waste via a licensed waste disposal contractor. The generation of waste should be minimised or avoided wherever possible. When handling waste, the safety precautions applying to handling of the product should be considered.
ii	Product / Packaging disposal recommendations
	Avoid release to the environment





14. TRANSPORT INFORMATION

14.1	In accordance with ADR / IMDG / IATA / ADN / RID				
	ADR	IMDG	IATA	ADN	RID
i	UN Number				
	UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
ii	UN proper shipping name				
	Copper Iodide	Copper Iodide	Copper Iodide	Copper Iodide	Copper Iodide
iii	Transport hazard class				
	9	9	9	9	9
iv	Hazardous class symbols				
v	Packing group				
	III	III	III	III	III
vi	Environment hazards: Dangerous for the environment				
	Yes	Yes	Yes	Yes	Yes
vii	Marine Pollutant				
	Not applicable	Yes	Not applicable	Not applicable	Not applicable
14.2	Special precautions for user				
	No data available				



15. REGULATORY INFORMATION

15.1	Regulations
i	OSHA Hazards :Target Organ Effect, Harmful by ingestion., Irritant
ii	SARA 302 Components : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
iii	California Prop. 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



16. OTHER INFORMATION

16.1 NFPA Rating										
i	Health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.								
ii	Fire hazard	: 0 - Materials that will not burn under typical dire conditions, including intrinsically non-combustible materials such as concrete, stone, and sand.								
iii	Reactivity	: 0 - Normally stable, even under fire exposure conditions, and is not reactive with water.								
16.2 HMIS Rating		<table border="1"> <tr> <td>Health</td> <td align="right">2</td> </tr> <tr> <td>Fire</td> <td align="right">0</td> </tr> <tr> <td>Reactivity</td> <td align="right">0</td> </tr> <tr> <td>Personal Protection</td> <td></td> </tr> </table>	Health	2	Fire	0	Reactivity	0	Personal Protection	
Health	2									
Fire	0									
Reactivity	0									
Personal Protection										
i	Health	: 2 - Moderate Hazard - Temporary or minor injury may occur								
ii	Flammability	: 0 - Minimal Hazard - Materials that will not burn								
iii	Reactivity	: 0 - Minimal Hazard – Materials that are normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives.								
vi	Personal Protection	: No data available								
16.3 Further Information										
	The above information is derived from the available literature & believed to be correct but may not be complete & conclusive. The company shall not be responsible for any damage resulting from handling or usage of the product. The information shall be used only as a guide.									

DISCLAIMER OF LIABILITY: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.