

Manufacturers & Exporters of Pharmaceutical Chemicals

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers		
i	Product Name	:	Iodine Monochloride
ii	Chemical Formula	:	ICI
iii	CAS No.	:	7790-99-0
iv	EC No.	:	232-236-7
٧	HSN Code	:	28129000
vi	Hazardous	:	Yes
vii	Content	:	Minimum 99.0%
viii	Appearance	:	Red brown heavy liquid
1.2	Relevant identified	use	s of the substance
i	Identified uses	:	Laboratory chemicals
1.3	Details of Manufacti	ure	r
i	Company	:	Samrat Pharmachem Limited
			Plot No. A2/3444-3445,
			GIDC, Phase 4,
ii	Address	:	Ankleshwar – 393002,
			Gujarat,
			India.
iii	Phone	:	+91-7045456789 / 7046456789
iv	Email	:	contact@samratpharmachem.in
٧	Webpage	:	www.samratpharmachem.com
1.4	Emergency Number	,	
	Emergency Phone	:	+91-7045456789 / 7046456789





2. HAZARD IDENTIFICATION

2.1	Classification of substance					
	Classification according to Regulation (EC) No 1272/2008					
i	H314	Skin corrosion	:	Causes severe skin burns and eye damage. (category 1A)		
ii	H318	Serious eye damage	:	Causes serious eye damage (Category 1)		
iii	H315	Skin Corrosion / Irritation	:	Causes skin irritation (Category1A)		
iv	H335	Specific Target Organ Toxicity (Respiratory)	:	May cause respiratory irritation; Single Exposure (Category 3)		
٧	H351	Carcinogenicity	:	Suspected of causing cancer. (Category 2)		





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2.2	GHS Label elements, including precautionary statements		
i	Pictogram		
ii	Signal word	: Danger	
iii	Hazard Statement(s)		
	H314	: Causes severe skin burns and eye damage.	
	H315	: Causes skin irritation	
	H318	: Causes serious eye damage.	
	H335	: May cause respiratory irritation; Single Exposure	
	H351	: Suspected of causing cancer.	
iv	Precautionary Stateme	nt(s)	
	P261	: Avoid breathing dust / fumes / gas / mist / vapours / spra	
	P271	: Use outdoors or in a well-ventilated area	
	P280	: Wear protective clothing, gloves, eye & face equipment	
	P301 + P330 + P331	: IF SWALLOWED: rinse mouth. DO NOT induce vomiting	
	P303 + P361 + P353	: IF ON SKIN (or hair): Remove all contaminated clothing Rise skin with water/shower	
	P305 + P351 + P338	: IF IN EYES: Rise cautiously with water for severa minutes. Remove contact lenses in present.	
	P311	: Call poison center/ doctor	



2.3	Hazards not otherwise classified (HNOC) or not covered by GHS			
Data n	Data not available			

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Substances		
	Molecular Weight	:	162.36 g/mol
	Constituent Elements	:	ICI



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4. FIRST AID MEASURES

4.1	Symptoms					
i	Most important symptoms and effects, both acute and delayed					
	Causes burns by all exposure routes. Product is a corrosive material. Use of					
	gastric lavage of	or emesis is contraindicated. Possible perforation of stomach or				
	esophagus sho	uld be investigated: Ingestion causes severe swelling, severe				
	damage to the o	delicate tissue and danger of perforation.				
ii	Indication of ar	ny immediate medical attention & special treatment needed				
	If seeking medic	cal attention, provide SDS document to physician.				
4.2	Description o	f 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 a slurry of activated				
		charcoal in 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 med	ia	
i	Suitable extinguishing agents	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
	Unsuitable extinguishing media	:	Do not use a heavy water stream.
ii	Special hazards arising from the substance or mixture	:	Hydrogen chloride gas, Hydrogen iodide, Not combustible. Fire may cause evolution of: iodine, Hydrogen chloride gas Ambient fire may liberate
			hazardous vapours.
iii	Special remarks on	:	No data found
	Explosion Hazard		
iv	Advice for firefighters	:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
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

Personal precautions, protective equipment & emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. 6.2 **Environmental precautions** Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dyke if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the SDS and with local authorities. 6.3 Methods and material for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.



7. HANDLING AND STORAGE

6.4

Reference to other sections

For disposal see section 13

7.1	Precautions for safe handling		
	Use only under a chemical fume hood. Wear personal protective equipment/face		
	protection. Avoid dust formation. Do not breathe (dust, vapor, mist, gas). Do not		
	get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek		
	immediate medical assistance. Do not allow contact with water.		
7.2	Conditions for safe storage, including any incompatibilities		
	Keep refrigerated. Store under an inert atmosphere. Keep away from water or		
	moist air. Protect from light. Corrosives area. Keep containers tightly closed in a		
	dry, cool and well-ventilated place.		
7.3	Specific end use(s)		
	Apart from the uses mentioned in section 1.2 the product has applications such		
	as antimicrobial agent, chlorinating agent.		





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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control Parameters
	No data found
8.2	Exposure Controls
i	Appropriate engineering controls
	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
ii	Personal protective equipment
(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.
	l .



9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: low melting solid Colour: Red Brown	Specific gravity	3.200
Odour	Odourless	Vapour pressure	Not available
Odour threshold	Not determined	Relative vapour density at 20°C	Not available
pH-value	Not available	Relative density	Not available
Melting/Freezing point	26 °C / 78.8 °F	Solubilities	Not available
Boiling point	97 °C / 206.6 °F	Partition coefficient (n- octanol/water)	Not determined
Flash Point	40 °C	Auto/Self-ignition temperature	Not available





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Evaporation rate	Not determined	Decomposition temperature	Not available
Flammability	Not determined	Viscosity	Not determined
Density	1.05 g/cm ³	Poison Class	Not determined

10. STABILITY & REACTIVITY

(a)	Reactivity	:	Non-reactive under normal conditions.	
(b)	Chemical stability	:	If kept under long exposure to air the material shall	
			evaporate releasing violet fumes. No decomposition	
			if used and stored according to specifications.	
(c)	Possible hazardous	:	None under normal processing. Can react violently	
	reactions		on contact with incompatibles	
(d)	Conditions to avoid	:	Avoid dust formation. Incompatible products.	
			Excess heat. Exposure to light. Exposure to air.	
			Exposure to moist air or water.	
(e)	Incompatible material	:	Strong oxidizing agents, Organic materials, Strong	
			bases, Metals	
(f)	Hazardous	:	Hydrogen iodide, Chlorine, Hydrogen chloride gas	
	decomposition products			



11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects				
	Oral	LD50 Rat	50 mg/kg		
11.2	Corrosion Irritation				
	Serious eye damage / irritation		Causes serious eye irritation		
	Respiratory or skin irritation		Causes severe burn , may cause		
			respiratory irritation.		
	Germ cell mutagenio	city	No data available		
	Carcinogenicity		No data available		
	Reproductive Toxicit	у	No data available		
11.3	Additional information				
i	No information available				
ii	Material is extremely destructive to tissue of the mucous membranes and upper				
	respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache,				
	Nausea(lodine monochloride)				





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12. ECOLOGICAL INFORMATION

12.1	Toxicity				
	No data available				
12.2	Persistence and degradability				
(a)	Persistence and degradability	Biodegradability			
(b)	Biodegradation	radation No data available			
12.3	Bio accumulative potential				
(a)	BCF – Other aquatic organisms	No data available			
(b)	Partition coefficient n-octanol/water (Log Kow)	No data available			
(c)	Bioaccumulative potential	No data available			
12.4	Mobility in Soil				
(a)	Partition coefficient n-octanol/water (Log Koc) No data available				
12.5	Results of PBT and vPvB assessment				
	No data available				
12.6	Other adverse effects				
	Not known				



13. DISPOSAL CONSIDERATIONS

13.1	Waste disposal recommendation's
i	General instructions
	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
ii	Product / Packaging disposal recommendations
	Avoid release to the environment





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14. TRANSPORT INFORMATION

14.1	In accordance with ADR / IMDG / IATA / ADN / RID					
	ADR	IMDG	IATA	ADN	RID	
i	UN Number	UN Number				
	UN 1792	UN 1792	UN 1792	UN 1792	UN 1792	
ii	UN proper shipping name					
	lodine	lodine	lodine	lodine	lodine	
	Monochloride	Monochloride	Monochloride	Monochloride	Monochloride	
iii	Transport hazard class					
	8	8	8	8	8	
iv	Hazardous class symbols					
٧	Packing group					
	II	II	II	II	II	
vi	Environment hazards: Dangerous for the environment					
	Yes	Yes	Yes	Yes	Yes	
vii	Marine Pollutant					



15. REGULATORY INFORMATION

15.1	Regulations
i	U.S. Department of Homeland: This product does not contain any DHS chemicals. Security
ii	California Proposition 65: This product does not contain any Proposition 65 chemicals.



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16. OTHER INFORMATION

16.1	NFPA Rating			3 0	
i	Health hazard	:	3 - Materials that, under emerge cause temporary incapacitation or re		
ii	Fire hazard	:	0 - Materials that will not burn conditions, including intrinsicall materials such as concrete, stone, a	under typical dire y non-combustible and sand.	
iii	Reactivity	:	0 - Normally stable, even under fire exposure conditions, and is not reactive with water.		
16.2	HMIS Rating			Health 3 Fire 0	
				Reactivity 0 Personal J protection	
i	Health	:	3 - Moderate Hazard - Temporary occur	or minor injury may	
ii	Flammability	:	0 - Minimal Hazard - Materials that will not burn		
iii	Physical	:	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	:	J - Gloves. Synthetic apron. Vapour and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.		
16.3	Further Information	n			
10.0	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.