

Manufacturers & Exporters of Pharmaceutical Chemicals

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers		
i	Product Name	:	Hydroiodic Acid
ii	Chemical Formula	:	HI
iii	CAS No.	:	10034-85-2
iv	EC No.	:	233-109-9
٧	HSN Code	:	28111990
vi	Hazardous	:	Yes
vii	Content	:	57.0% to 57.5%
viii	Appearance	:	Colourless to yellow liquid
1.2	Relevant identified u	use	s of the substance
i	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of Manufactu	ıre	r
i	Company	:	Samrat Pharmachem Limited
ii	Address	:	Plot No. A2/3444-3445, GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India.
iii	Phone	:	+91-7045456789 / 7046456789
iv	Email	:	contact@samratpharmachem.in
V	Webpage	:	www.samratpharmachem.com
4.4	Carananan ay Niverbaa		
1.4	Emergency Number	'	
L	Emergency Phone		+91-7045456789 / 7046456789





2. HAZARD IDENTIFICATION

2.1	Classification of substance					
i	H280	Corrosive to metals	:	May be corrosive to metals (Category 1)		
ii	ii H314 Skin corrosion/irritation			Causes severe skin burns and eye		
"	11014	OKIII COITOSIOII/IIIIIaliOII		damage (Category 1A)		
iii	H335	Specific Target Organ		May cause respiratory irritation; Single		
""	11333	Toxicity (Respiratory)		Exposure (Category 3)		
iv	H411	1 Chronic Aquatic Hazard		Toxic to aquatic life with long lasting		
IV	11411		•	effects (Category 2)		



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2.2	GHS Label elements, including precautionary statements		
i	Pictogram	:	
ii	Signal word	:	Danger
iii	Hazard Statement(s)		
	H290	:	May be corrosive to metals
	H314	:	Causes severe skin burns and eye damage
	H335	:	May cause respiratory irritation
	H411	:	Toxic to aquatic life with long lasting effects
iv	Precautionary Stateme	nt(s	s)
	P234	:	Keep only in original container/packaging.
	P273	:	Avoid release to the environment
	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
	P304 + P340 + P310	:	IF INHALED: Remove person to fresh air and keep
			comfortable for breathing. Immediately call a POISON
			CENTER or doctor/ physician.
	P305 + P351 + P338	:	IF IN EYES: Rise cautiously with water for several
			minutes. Remove contact lenses in present.





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

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Substances		
	Molecular Weight	:	127.91 g/mol
	Constituent Elements	:	HI



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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 or e	mesis is contraindicated. Possible perforation of stomach or					
	esophagus should	be investigated: Ingestion causes severe swelling, severe					
	damage to the delic	cate tissue and danger of perforation					
ii	Indication of any i	mmediate medical attention & special treatment needed					
	If seeking medical	attention, provide SDS document to physician.					
4.2	Description of fi	rst 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 media		
i	Suitable : extinguishing agents	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide and extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
ii	Special hazards : arising from the substance or mixture	Oxides of phosphorus Hydrogen Iodide Not combustible. Ambient fire may liberate hazardous vapours.	
iii	Special remarks on : Explosion Hazard	Hydrogen Iodide Gas, Hydriodic Acid Vapor.	
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

6.1 Personal precautions, protective equipment & emergency procedures

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Corrosive solid. Stop leak if without risk. Keep material out of water sources and sewers. Attempt to stop leak if without undue personnel hazard. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dyke if needed. Call for assistance on disposal.



Cover drains. Cover spill with non-combustible material e.g. sand, mud & vermiculite. Observe possible material restrictions (see sections 7 and 10). Use gloves to take up dry. Dispose-off properly. Clean up affected area carefully.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not touch or walk through spilled material. Stop leak if you can do it without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Prevent entry into waterways, sewers, basements or confined areas. Do not direct water at spill or source of leak. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Isolate area until gas has dispersed.

7.2 Conditions for safe storage, including any incompatibilities

Eliminate all ignition sources (no smoking, flares, sparks or flames) from immediate area. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

7.3 Specific end use(s)

The product has applications in the following industries such as reducing agent and in laboratory analysis; Used to produce pharmaceuticals, disinfectants, and other chemicals.





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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control Parameters
	No data available
8.2	Exposure Controls
i	Appropriate engineering controls
	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
ii	Paranal protective equipment
	Personal protective equipment Eye / face protection
(a)	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
	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
(e)	Control of environmental exposure
(0)	Do not let product enter drains.





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9. PHYSICAL & CHEMICAL PROPERTIES

	T	T	T
Appearance	Form: Liquid	Flammability	Not determined
	Colour: Light Yellow		
Odour	Acrid	Vapour pressure	5,938 mm of Hg (@ 25°C)
Odour threshold	Not determined	Relative vapour	Not determined
pH-value	1.0	Relative density	Not determined
Melting/Freezing	-50.8 °C	Solubilities	Extremely soluble in
point	-50.6 C	Solubilities	water
	127.5 °C at 60 atm	Partition	
Boiling point	pressure	coefficient (n-	Not determined
	pressure	octanol/water)	
Flash Point	Not determined	Auto/Self-ignition	Not determined
i iasii Follit	Not determined	temperature	Not determined
Evaporation rate	Not determined	Decomposition	Not determined
Lvaporation rate	Not determined	temperature	Not determined
Flammability	Not determined	Viscosity	Not determined
Density	5.23 g/cm3 (25 °C)	Poison Class	Not determined



10. STABILITY & REACTIVITY

(a)	Reactivity	:	Acids, Strong Non-oxidizing, Water and Aqueous	
			Solutions	
(b)	Chemical stability	:	Hydriodic acid reacts exothermically with organic bases (amines, amides) and inorganic bases (oxides and hydroxides of metals). Reacts exothermically with carbonates (including limestone and building materials containing limestone) and hydrogen carbonates to generate carbon dioxide. Reacts with sulfides, carbides, borides, and phosphides to generate toxic or	
			flammable gases	
(c)	Possible hazardous reactions	:	Generates dangerous gases or fumes in contact with: Metals Gives off hydrogen by reaction with metals. Exothermic reaction with: strong alkalis Strong oxidizing agents	
(d)	Conditions to avoid	:	Avoid high temperatures exposure to direct sunlight, & avoid contact with incompatible materials.	
(e)	Incompatible material	:	Magnesium, Water, Potassium chlorate, nitric acid	
(f)	Hazardous decomposition products	:	No data available	





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11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effect	s
	No data available	
11.2	Corrosion Irritation	
	Serious eye damage / irritation	Causes serious eye irritation. Redness,
		pain.
	Respiratory or skin irritation	Frost bite, burn, pain
	Germ cell mutagenicity	No data available
	Carcinogenicity	No data available
	Reproductive Toxicity	No data available
11.3	Additional information	
	No data available	



12. ECOLOGICAL INFORMATION

12.1	Toxicity	
	No data available	
12.2	Persistence and degradability	
(a)	Persistence and degradability	Biodegradability
(b)	Biodegradation	Data not available
12.3	Bio accumulative potential	
	Data not available	
12.4	Mobility in Soil	
(a)	Data not 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
	Ensure that collection, transport, treatment, and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.
ii	Product / Packaging disposal recommendations
	Do not allow product to reach ground water, watercourse or sewage system. Danger to drinking water if even small quantities leak into ground water. Do not allow material





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to be released to the environment without proper governmental permits. Environmental fate: Unknown.

14. TRANSPORT INFORMATION

14.1	In accordance with ADR / IMDG / IATA / ADN / RID								
	ADR	IMDG	IATA	ADN	RID				
i	UN Number								
	UN 1787	UN 1787	UN 1787 UN 1787 UN 178		UN 1787				
ii	UN proper shipping name								
	Hydriodic Acid	Hydriodic Acid	Hydriodic Acid	Hydriodic Acid	Hydriodic Acid				
iii	Transport hazard class								
	8	8	8	8	8				
iv	Hazardous class symbols								
V	Packing group								
	II	II		II	=				
vi	Environment hazards: Dangerous for the environment								
	Yes	Yes	Yes	Yes	Yes				
vii	Marine Pollutan								



15. REGULATORY INFORMATION

15.1	Regulations
i	TSCA (USA - Toxic Substance Control Act) Listed
ii	SARA TITLE III (USA - Superfund Amendments and Reauthorization Act) Not
	Reportable
iii	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.



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16. OTHER INFORMATION

16.1	NFPA Rating			3 0		
i	Health hazard	:	Short exposure could cause serious temporary or moderate 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 - Material that in themselves are n under fire conditions.			
16.2	HMIS Rating			Health 3		
				Fire 0 Reactivity 1		
				Personal H Protection		
i	Health	:	3 - Moderate Hazard - Temporary or minor injury may			
ii	Flammability	:	0 - Minimal Hazard - Materials that v	vill not burn		
iii	Reactivity	:	Slight Hazard - Normally stable material but becomes unstable at elevated temperatures and pressures. Substance considered explosive under OSHA's Hazard Communication Standard.			
vi	Personal Protection	:	H - Splash goggles, gloves, apron, a	and vapor respirator.		
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.					

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