



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION


1.1 Product identifiers	
i	Product Name : Per Iodic Acid (Powder)
ii	Chemical Formula : H_5IO_6
iii	CAS No. : 10450-60-9
iv	EC No. : 233-937-0
v	HSN Code : 28112930
vi	Hazardous : Yes
vii	Content : Minimum 99.0%
viii	Appearance : White crystalline 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

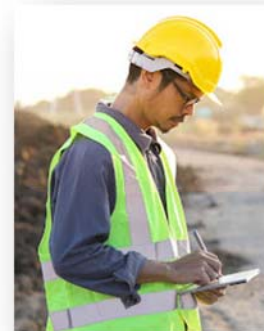


2. HAZARD IDENTIFICATION

2.1 Classification of substance	
i	H271 Oxidizing solids : May cause fire or explosion; strong oxidizer. (Category 1)
ii	H314 Skin corrosion : Causes severe skin burns and eye damage. (Sub-category 1C)
iii	H318 Serious eye damage : Causes serious eye damage. (Category 1)
iv	H372 Specific Target Organ Toxicity (Oral) : Thyroid; Repeated Exposure (Category 1)



2.2 GHS Label elements, including precautionary statements	
i	Pictogram : 
ii	Signal word : Danger
iii	Hazard Statement(s)
	H271 : May cause fire or explosion; strong oxidizer.
	H314 : Causes severe skin burns and eye damage.
	H318 : Causes serious eye damage.
	H335 : May cause respiratory irritation
	H372 : Causes damage to organs (thyroid gland) through prolonged or repeated exposure
iv	Precautionary Statement(s)
	P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P260 : Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
	P273 : Avoid release to the environment
	P280 : Wear protective clothing, gloves, eye & face equipment
	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 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	: 227.9 g/mol
Constituent Elements	: H ₅ IO ₆





4. FIRST AID MEASURES

4.1 Symptoms	
i	Most important symptoms and effects, both acute and delayed
	Corrosion, Risk of blindness, Gastric perforation, Risk of serious damage to eyes Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea.
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 : Rinse mouth immediately and drink plenty of water. Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).
iii	Skin contact : After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.
iv	Eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.



5. FIRE FIGHTING MEASURES

5.1 Extinguishing media	
i	Suitable extinguishing agents : Use Suitable extinguishing media Water spray, dry powder 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 : Oxidising. Severe corrosive hazard. May ignite other combustible materials. Very toxic or corrosive gases or vapours
iii	Special remarks on Explosion Hazard : None
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 : Keep up-wind to avoid fumes. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours. Avoid breathing fire gases or vapours.





6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment & emergency procedures	
	Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, and consult an expert.
6.2 Environmental precautions	
	Wear protective clothing, gloves, eye and face protection. No smoking, sparks, flames or other sources of ignition near spillage.
6.3 Methods and material for containment and cleaning up	
	Covering of drains. Take up mechanically. Control of dust.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling	
	Handle and open container with care. Avoid dust formation. Clear contaminated areas thoroughly.
7.2 Conditions for safe storage, including any incompatibilities	
	Keep locked up or in an area accessible only to qualified or authorized persons. Separately or together with other oxidizing substances only and away from sources of ignition and heat. Because of their oxidation potential these products can raise the burning rate of combustible substances substantially or ignite combustible substances on contact with them. Recommended storage temperature see product label.
7.3 Specific end use(s)	
	The product has applications in the following industries such as synthesis of alkali metal iodates, aniline polymerization, and oxidation of organic sulfides, halides and in-situ iodine generation.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters	
i	Ingredients with workplace control parameters
	NA
8.2 Exposure Controls	
i	<i>Appropriate engineering controls</i>
	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
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 Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.
(e)	Control of environmental exposure Do not let product enter drains.



9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: Solid Colour: White	Flammability	Not combustible
Odour	Fairly perceptible	Vapour pressure	Not determined
Odour threshold	Not determined	Relative vapour density at 20°C	Not determined
pH-value	1.2 at 100 g/L at 20 °C	Relative density	1.4
Melting/Freezing point	127°C	Solubilities	>1,000 g /L at 20 °C (ECHA)
Boiling point	Not determined	Partition coefficient (n-octanol/water)	Not determined
Flash Point	90°C (194°F)	Auto/Self-ignition temperature	262°C
Evaporation rate	Not determined	Decomposition temperature	100-200°C
Flammability	Not combustible	Viscosity	Not determined
Density	3.37 g/m ³ at 20°C (77° F)	Poison Class	Not determined





10. STABILITY & REACTIVITY

(a)	Reactivity	: It's a reactive substance. Oxidising property
(b)	Chemical stability	: Stable under recommended storage conditions. Oxidizer: Contact with combustible/organic material may cause fire. Hygroscopic
(c)	Possible hazardous reactions	: Violent reaction with: Combustible materials, Organic substances, Strong alkali
(d)	Conditions to avoid	: Incompatible products. Excess heat. Combustible material. Exposure to moist air or water
(e)	Incompatible material	: Combustible material.
(f)	Hazardous decomposition products	: Hydrogen iodide, thermal decomposition can lead to release of irritating gases and vapours.



11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects		
	Oral	No data available
	Dermal	No data available
	Inhalation	No data available
	Additional Information:	No data available
11.2 Corrosion Irritation		
	Serious eye damage / irritation	Causes serious eye damage
	Respiratory or skin irritation	Did not cause sensation.
	Germ cell mutagenicity	Not classified as mutagenic
	Carcinogenicity	Not classified as carcinogenic
	Reproductive Toxicity	Not classified
11.3 Additional information		
i	Causes damage to organs (thyroid gland) through prolonged or repeated exposure (if swallowed)	



12. ECOLOGICAL INFORMATION

12.1 Toxicity			
i	Particulars	Type	Value
	LC50	Fish	> 0.17 mg/l - 96 h
	EC 50	Invertebrates	0.086 mg/l - 48 h
	ErC 50	Algae	2.5 mg/l
12.2 Persistence and degradability			
(a)	Persistence and degradability		Biodegradability
(b)	Biodegradation		Not applicable
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 Kow)	<1.26
12.5 Results of PBT and vPvB assessment		
	No data available	
12.6 Other adverse effects		
	No data available.	

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal recommendation's	
i	General instructions
	This material, containers & non-recyclable solutions should be offered to a licensed disposal company. Dispose of contents/container in accordance with licensed collectors sorting instructions. Dispose in a safe manner in accordance with local/national regulations. Do not discharge into drains.
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 3085	UN 3085	UN 3085	UN 3085	UN 3085
ii	UN proper shipping name				
	Per Iodic Acid Powder	Per Iodic Acid Powder	Per Iodic Acid Powder	Per Iodic Acid Powder	Per Iodic Acid Powder
iii	Transport hazard class				
	5.1 (8)	5.1 (8)	5.1 (8)	5.1 (8)	5.1 (8)
iv	Hazardous class symbols				
v	Packing group				
	I	I	I	I	I
vi	Environment hazards: Dangerous for the environment				
	Yes	Yes	Yes	Yes	Yes
vii	Marine Pollutant				
	Not applicable	Yes	Not applicable	Not applicable	Not applicable





14.3	Transport in bulk according to annexure II of Marpol and the IBC Code	
	IBC Code	Not applicable

15. REGULATORY INFORMATION

15.1	Regulations	
i	California Proposition 65 : This product does not contain any Proposition 65 chemicals.	
ii	Australian Inventory of Chemical Substances (AICS) : Substance is listed.	

16. OTHER INFORMATION

16.1 NFPA Rating						
i	Health hazard : 3 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.					
ii	Fire hazard : 0 - Materials that will not burn under typical fire conditions					
iii	Reactivity : 2 - Material that in themselves are normally stable, even under fire conditions.					
16.2 HMIS Rating		<table border="1"> <tr><td>Health</td></tr> <tr><td>Fire</td></tr> <tr><td>Reactivity</td></tr> <tr><td>Personal protection</td></tr> </table>	Health	Fire	Reactivity	Personal protection
Health						
Fire						
Reactivity						
Personal protection						
i	Health : No data available					
ii	Flammability : No data available					
iii	Physical : No data available					
iv	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.						



Samrat Pharmachem Limited

Manufacturers & Exporters of Pharmaceutical Chemicals

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