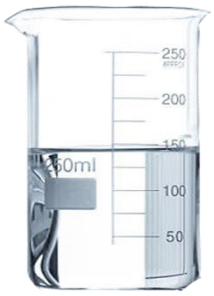
Samrat Pharmachem Limited

Manufacturers & Exporters of Pharmaceutical Chemicals

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION



1.1	**Product identifiers**		
i	Product Name	:	**Iodic Acid**
ii	Chemical Formula	:	HIO_3
iii	CAS No.	:	7782-68-5
iv	EC No.	:	231-962-1
v	Hazardous	:	Yes
vi	Content	:	Minimum 99%
vii	Appearance	:	Off white or pale yellow crystalline powder
1.2	**Relevant identified uses of the substance**		
i	Identified uses	:	Laboratory chemicals, Iodine supplement manufacturing.
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	H272	Oxidizing Solids	:	May intensify fire; oxidizer (Category 2)
ii	H314	Skin corrosion	:	(Category 1B)
iii	H318	Serious Eye damage	:	(Category 1)

2.2	GHS Label elements, including precautionary statements		
i	Pictogram	:	
ii	Signal word	:	Danger
iii	Hazard Statement(s)		
	H272	:	Oxidizing Solids
	H314	:	Skin corrosion
	H318	:	Serious Eye damage
iv	Precautionary Statement(s)		
	P210	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220	:	Keep away from clothing and other combustible materials.
	P221	:	Take any precaution to avoid mixing with combustibles
	P264	:	Wash exposed skin thoroughly after handling.
	P270	:	Do not eat, drink or smoke when using this product.
	P280	:	Wear protective clothing, gloves, eye & face equipment
	P301 + P330 + P331	:	IF SWALLOWED: Rinse mouth. Do not induce vomiting.
	P305 + P351 + P338	:	IF IN EYES: Rise cautiously with water for several minutes. Remove contact lenses in present.
	Supplemental Hazard statement	:	None

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Substances		
i	Molecular Weight	:	175.91 g/mol
ii	Constituent Elements	:	HIO_3

4. FIRST AID MEASURES

4.1	Symptoms		
i	**Most important symptoms and effects, both acute and delayed**		
	Eye Burn / Irritation, Repeated skin exposure can cause absorption which may lead to health hazards, Gastrointestinal complains & Possible inflammation of respiratory track, risk of lung oedema. Ingestion may cause vomiting & blood pressure drop.		
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 least). 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.
ii	Special hazards arising from the substance or mixture	:	Hydrogen iodide.
iii	Special remarks on Explosion Hazard	:	No Risk of explosion with: oxidisable substances, combustible substances, Powdered metals, Sulfides, phosphorus sulfur
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	:	Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment & emergency procedures**
	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, and consult an expert.
6.2	**Environmental precautions**
	Do not let product enter drains.
6.3	**Methods and material for containment and cleaning up**
	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1	**Precautions for safe handling**
	Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. **Hygiene measures:** Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2	**Conditions for safe storage, including any incompatibilities**
	Storage conditions: Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): 5.1B: Oxidizing hazardous materials
7.3	**Specific end use(s)**
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	**Control Parameters**
i	**Ingredients with workplace control parameters**
	No data available
8.2	**Exposure Controls**
i	Appropriate engineering controls
	Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.
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
	Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
(e)	Control of environmental exposure
	Do not let product enter drains.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: Crystalline solid Colour: White	**Explosiveness**	No data available
Odour	odourless	**Vapour pressure**	Negligible
Odour threshold	No data available	**Relative vapour density at 20°C**	No data available
pH-value	2.0	**Relative density**	No data available
Melting/Freezing point	110^0C	**Solubilities**	Soluble in water
Boiling point	No data available	**Partition coefficient (n-octanol/water)**	No data available
Flash Point	No data available	**Auto/Self-ignition temperature**	No data available
Evaporation rate	No data available	**Decomposition temperature**	No data available
Flammability	No data available	**Viscosity**	No data available
Density	4.630g/cm^3	**Poison Class**	No data available

10. STABILITY & REACTIVITY

i	Reactivity	:	No data available
ii	Chemical stability	:	The product is chemically stable under standard recommended conditions (room temperature).
iii	Possible hazardous reactions	:	No data available
iv	Conditions to avoid	:	No data available

v	Incompatible material	:	Strong reducing agents, alcohols and organic materials
vi	Hazardous decomposition products	:	Hydrogen iodide, non-combustibles

11. TOXICOLOGICAL INFORMATION

11.1	**Information on toxicological effects**		
i	Oral	LD50 Rat	No data available
ii	Dermal	LD50 Rat	No data available
11.2	**Corrosion Irritation**		
i	Serious eye damage / irritation		No data available
ii	Respiratory or skin irritation		No data available.
iii	Germ cell mutagenicity		No data available
iv	Carcinogenicity		No data available
v	Reproductive Toxicity		No data available
11.3	**Additional information**		
	No data available		

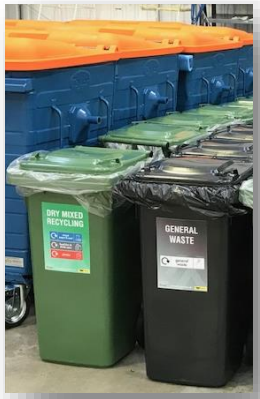
12. ECOLOGICAL INFORMATION

12.1	**Toxicity**		
i	**Particulars**	**Type**	**Value**
	Fish LC50	No data available	No data available
	Crustacea LC 50	No data available	No data available
ii	Ecology – general	No data available	
iii	Ecology – air	No data available	
iv	Hazardous to aquatic environment – short term (acute)	No data available	
v	Hazardous to aquatic environment – long term (chronic)	No data available	
12.2	**Persistence and degradability**		
i	Persistence and degradability		Biodegradability: not applicable.
ii	Biodegradation		Soluble in water Persistence is unlikely based on information available
12.3	**Bio accumulative potential**		
i	BCF – Other aquatic organisms		No data available
ii	Partition coefficient n-octanol/water (Log Kow)		No data available
iii	Bioaccumulative potential		No data available
12.4	**Mobility in Soil**		
	Will likely be mobile in the environment due to its water solubility.		
12.5	**Results of PBT and vPvB assessment**		
	No data available		

12.6	Other adverse effects
	Not known

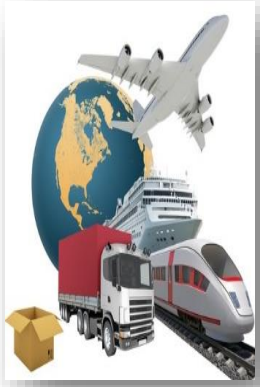
13. DISPOSAL CONSIDERATIONS

13.1	Waste disposal recommendation's
i	General instructions
	Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.
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				
	IODIC ACID	IODIC ACID	IODIC ACID	IODIC ACID	IODIC ACID
iii	Transport hazard class				
	5.1	5.1	5.1	5.1	5.1
iv	Hazardous class symbols				
					
v	Packing group				
	II	II	II	II	II
vi	Environment hazards: Dangerous for the environment				
	Yes	Yes	Yes	Yes	Yes
vii	Marine Pollutant				
	NA	Yes	NA	NA	NA
14.3	Transport in bulk according to annexure II of Marpol and the IBC Code				
i	IBC Code		Not applicable		

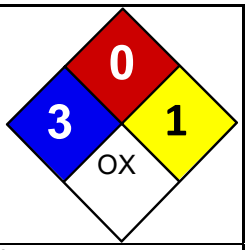


15. REGULATORY INFORMATION

15.1	Regulations
i	**SARA 302 Components**: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
ii	**SARA 313 Components**: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section313.
iii	**California Prop. 65 Components**: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

16.1 NFPA Rating



i	Health hazard	:	3-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	:	1-Normally stable, but can become unstable at elevated temperatures and pressures.
iv	OX	:	Material that possesses oxidizing property

16.2 HMIS Rating

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.

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