Samrat Pharmachem Limited

Manufacturers & Exporters of Pharmaceutical Chemicals

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	**Product identifiers**		
i	Product Name	:	**Per Iodic Acid (Solution)**
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	:	50.0% to 50.5%
viii	Appearance	:	Clear Colourless to pale yellow liquid
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	H218	Serious eye damage	:	Causes serious eye damage. (Category 1)
ii	H272	Oxidizing liquids	:	May intensify fire; oxidizer. (Category 2)
iii	H314	Skin corrosion	:	Causes serious skin burns. (Category 1)

2.2	GHS Label elements, including precautionary statements		
i	Pictogram	:	
ii	Signal word	:	Danger
iii	Hazard Statement(s)		
	H218	:	Causes serious eye damage
	H272	:	May intensify fire; oxidizer.
	H290	:	May be corrosive to metals
	H314	:	Causes serious skin burns
iv	Precautionary Statement(s)		
	P220	:	Keep/Store away from combustible materials
	P221	:	Take any precaution to avoid mixing with combustibles.
	P261	:	Avoid breathing dust / fumes / gas / mist / vapours / spray
	P264	:	Wash exposed skin thoroughly after handling
	P271	:	Use outdoors or in a well-ventilated area
	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
	P304 + P340	:	IF INHALED: Remove person to fresh air and keep comfortable for breathing
	P305 + P351 + P338	:	IF IN EYES: Rise cautiously with water for several minutes. Remove contact lenses in present.
	P312	:	Immediately call a poison centre or doctor / physician
	P391	:	Collect spillage
	P405	:	Lock up storage
	P501	:	Disposal of contents / containers to comply with local, state and federal regulations

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	:	227.9 g/mol
	Constituent Elements	:	H_5IO_6

4. FIRST AID MEASURES

4.1	Symptoms		
i	**Most important symptoms and effects, both acute and delayed**		
	Redness, burning, irritation, corrosion, and pain. Coughing, shortness of breath, burning, choking, coughing, wheezing, laryngitis, headache or nausea. May cause severe gastrointestinal tract burns.		
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! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.
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. Use flooding quantities of water to cool containers.
ii	Special hazards arising from the substance or mixture	:	Product components will burn producing oxygen.
Iii	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.
iv	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.

6. ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment & emergency procedures**
	Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Do not touch or walk on spilled product.
6.2	**Environmental precautions**
	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements..
6.3	**Methods and material for containment and cleaning up**
	Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.
6.4	**Reference to other sections**
	For disposal see section 13

7. HANDLING AND STORAGE

7.1	**Precautions for safe handling**
	Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.
7.2	**Conditions for safe storage, including any incompatibilities**
	Store in a cool, dry, well ventilated area. Isolate from combustible material. Store in the dark. Keep away from incompatible materials
7.3	**Specific end use(s)**
	Apart from the uses mentioned in section 1.2 the product has applications in the industries such as detection of mucopolysaccharides, glycogen, aldehyde .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	**Control Parameters**
	No data available
8.2	**Exposure Controls**
i	*Appropriate engineering controls*
	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. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.
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
	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
(e)	Control of environmental exposure
	Do not let product enter drains.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: Liquid Colour: Clear to pale yellow	**Flammability**	Not determined
Odour	Not available	**Vapour pressure**	Not determined
Odour threshold	Not determined	**Relative vapour density at 20°C**	Not determined
pH-value	<1	**Relative density**	1.65 g/cm3 @ 20^0C
Melting/Freezing point	Not determined	**Solubilities**	Completely soluble in water
Boiling point	110-140oC	**Partition coefficient (n-octanol/water)**	Not determined
Flash Point	Not determined	**Auto/Self-ignition temperature**	Not determined
Evaporation rate	Not determined	**Decomposition temperature**	Not determined
Flammability	Not determined	**Viscosity**	Not determined
Density	1600 g/cm3	**Poison Class**	Not determined

10. STABILITY & REACTIVITY

(a)	Reactivity	:	Non-reactive under normal conditions.
(b)	Chemical stability	:	Stable under ordinary conditions of use and storage.
(c)	Possible hazardous reactions	:	Hazardous polymerization will not occur.
(d)	Conditions to avoid	:	Avoid high temperatures exposure to direct sunlight, & avoid contact with incompatible materials
(e)	Incompatible material	:	Metals, organic materials, reducing agents, metallic oxides, dusts, combustible materials, strong bases.
(f)	Hazardous decomposition products	:	Iodine fumes.

11. TOXICOLOGICAL INFORMATION

11.1	**Information on toxicological effects**	
	No data available	
11.2	**Corrosion Irritation**	
	Serious eye damage / irritation	Causes serious eye damage
	Respiratory or skin irritation	Causes redness, burning, irritation, corrosion, pain
	Germ cell mutagenicity	No data available
	Carcinogenicity	No data available
	Reproductive Toxicity	No data available

11.3	Additional information
i	No data available

12. ECOLOGICAL INFORMATION

12.1	Toxicity	
	No data available	
12.2	**Persistence and degradability**	
(a)	Persistence and degradability	Biodegradability
(b)	Biodegradation	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
	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue.
ii	Product / Packaging disposal recommendations
	Avoid release to the environment

14. TRANSPORT INFORMATION

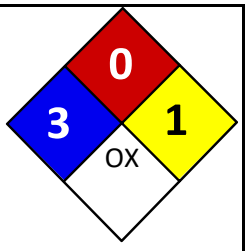
14.1	In accordance with ADR / IMDG / IATA / ADN / RID				
	ADR	**IMDG**	**IATA**	**ADN**	**RID**
i	UN Number				
	UN 3098	UN 3098	UN 3098	UN 3098	UN 3098
ii	UN proper shipping name				
	Per Iodic Acid Solution	Per Iodic Acid Solution	Per Iodic Acid Solution	Per Iodic Acid Solution	Per Iodic Acid Solution
iii	Transport hazard class				
	5.1(8)	5.1(8)	5.1(8)	5.1(8)	5.1(8)
iv	Hazardous class symbols				
	s 				
v	Packing group				
	II	II	II	II	II
vi	Environment hazards: Dangerous for the environment				
	Yes	Yes	Yes	Yes	Yes
vii	Marine Pollutant				
	Not applicable	Yes	Not applicable	Not applicable	Not applicable

15. REGULATORY INFORMATION

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

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 dire conditions, including intrinsically non-combustible materials such as concrete, stone, and sand.
iii	Reactivity	:	1 - Material that in themselves are normally stable, but becomes unstable if heated

16.2 HMIS Rating

Health	3
Fire	0
Reactivity	1
Personal Protection	

i	Health	:	3 - Moderate Hazard - Temporary or minor injury may occur
ii	Flammability	:	0 - Minimal Hazard - Materials that will not burn
iii	Physical	:	1 –Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures
vi	Personal Protection	:	Not 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.

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