



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers	
i	Product Name : Ammonium Iodide
ii	Chemical Formula : NH ₄ I
iii	CAS No. : 12027-06-4
iv	EC No. : 234-717-7
v	HSN Code : 28276090
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, Fire extinguisher
1.3 Details of Manufacturer	
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
1.4 Emergency Number	
	Emergency Phone : +91-7045456789 / 7046456789




2. HAZARD IDENTIFICATION

2.1 Classification of substance			
I	H315	Skin Corrosion / Irritation	: Causes skin irritation (Category 2)
ii	H319	Eye Irritation	: Causes serious eye irritation (Category 2)
iii	H335	Specific Target Organ Toxicity (Respiratory)	: May cause respiratory irritation; Single Exposure (Category 3)





2.2 GHS Label elements, including precautionary statements	
i	Pictogram : 
ii	Signal word : Warning
iii	Hazard Statement(s)
	H315 : Causes skin irritation
	H319 : Causes serious eye irritation
	H335 : May cause respiratory irritation
iv	Precautionary Statement(s)
	P261 : Avoid breathing dust / fumes / gas / mist / vapours / spray
	P302 + P352 : IF ON SKIN: Wash with soap and water.
	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
According to the results of its assessment, this substance is not a PBT or a vPvB.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances	
i	Molecular Weight : 144.9 g/mol
ii	Constituent Elements : NH ₄ I

4. FIRST AID MEASURES

4.1 Symptoms	
i	Most important symptoms and effects, both acute and delayed
	Potential Health Effects Eyes Causes eye irritation. Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin.
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. Call a doctor if you feel unwell.
iii	Skin contact : Rinse skin with water/shower. In case of skin irritation, consult a physician.





iv	Eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.
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5. FIRE FIGHTING MEASURES

5.1 Extinguishing media	
i	Suitable : Co-ordinate the firefighting measures to the fire surroundings water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder
ii	Special hazards : Non-combustibles. In case of fire these may be arising from the substance or mixture liberated: Nitrogen oxides (NOx), Hydrogen iodide (HI), Ammonia.
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 : No additional information found



6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment & emergency procedures	
i	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. Avoid contact with skin, eyes and clothes. Do not breathe dust.
6.2 Environmental precautions	
i	Cover the drains. Dike if needed. It should not be released into environment.
6.3 Methods and material for containment and cleaning up	
i	Sweep up and shovel. Contain spillage, 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	
i	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing.
7.2 Conditions for safe storage, including any incompatibilities	
i	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Store under an inert atmosphere. Incompatible Materials include strong oxidizing agents, Strong acids, Strong bases.
7.3 Specific end use(s)	
i	The product has applications in colour dyes, explosives, photographic chemicals, medications.





8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters	ACGIH TLV : TWA – 0.01 ppm
8.2 Exposure Controls	
i	Appropriate engineering controls
	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
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. Splash goggles. Lab coat. Dust respirator must be used.
(d)	Respiratory protection
	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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
	Avoid dispersal of spilled material, run off and contact with soil, waterways, drains and sewers.



9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Form: Solid crystalline Colour: White	Explosive nature	Does not possess
Odour	Odourless	Vapour pressure	Not determined
Odour threshold	Not determined	Relative vapour density at 20°C	Not determined
pH-value	4.5-6.5	Relative density	Not determined
Melting/Freezing point	551 °C	Solubility	1770 g /L at 25 °C
Boiling point	Not determined	Partition coefficient (n-octanol/water)	Not determined
Flash Point	Not determined	Auto/Self-ignition temperature	Not determined





Evaporation rate	Not determined	Decomposition temperature	405°C
Flammability	Not determined	Viscosity	Not determined
Density	Not determined	Poison Class	Not determined

10. STABILITY & REACTIVITY

i	Reactivity	: None known, based on information available
ii	Chemical stability	: Reactivity if exposed to light. Reactivity if exposed to air. Hygroscopic solid.
iii	Possible hazardous reactions	: Violent reaction with strong oxidiser
iv	Conditions to avoid	: Keep away from heat as decomposition takes place. Direct light irradiation. Protect from moisture. Contact with air/oxygen.
v	Incompatible material	: There is no additional information
vi	Hazardous decomposition products	: Ammonia, Hydrogen iodide.



11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects		
	No data found	
11.2 Corrosion Irritation		
	Serious eye damage / irritation	Causes serious eye irritation
	Respiratory or skin irritation	Causes respiratory or skin sensitization.
	Germ cell mutagenicity	Shall not be classified as mutagenic.
	Carcinogenicity	Not classified as carcinogenic
	Reproductive Toxicity	Not classified.
11.3 Additional information		
	NA	



12. ECOLOGICAL INFORMATION

12.1 Toxicity			
i	Particulars	Type	Value
	LC50	Fish	>100 mg/l
	EC50	Aquatic invertebrates	100 mg/l
	ErC50	Algae	>100 mg/l
12.2 Persistence and degradability			
i	Persistence and degradability	Biodegradability	
ii	Biodegradation	Not applicable	





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12.3 Bio accumulative potential		
i	BCF – Other aquatic organisms	Data not available
ii	Partition coefficient n-octanol/water (Log Kow)	Data not available
iii	Bioaccumulative potential	Data not available
12.4 Mobility in Soil		
i	Biodegradation in soil	Data not available.
12.5 Results of PBT and vPvB assessment		
i	No data available	
12.6 Other adverse effects		
i	Not known	

13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal recommendation's	
i	General instructions
	This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/ regional/national regulation.
ii	Product / Packaging disposal recommendations
	Do not empty into drains.



14. TRANSPORT INFORMATION

14.1	In accordance with ADR / IMDG / IATA / ADN / RID
	Not subjected to transport regulations.

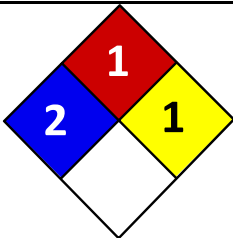


15. REGULATORY INFORMATION

Regulations			
US Federal regulations	U.S federal regulations:		
	Component	Weight%	SARA 313-threshold values
	Ammonium iodide	>95%	1.0%
California Proposition 65	This product does not contain any Proposition 65 chemicals.		



16. OTHER INFORMATION

16.1 NFPA Rating						
i	Health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.				
ii	Fire hazard	: 1 - Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur.				
iii	Reactivity	: 1 - 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 found				
ii	Flammability	: No data found				
iii	Physical	: No data found				
vi	Personal Protection	: No data found				
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