



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers	
i	Product Name : Cadmium Iodide
ii	Chemical Formula : CdI_2
iii	CAS No. : 7790-80-9
iv	EC No. : 232-223-6
v	HSN Code : 28276090
vi	Hazardous : Yes
vii	Content : Minimum 99.0%
viii	Appearance : White fine plates
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. A2/3444-3445, 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	H301	Acute toxicity	: Oral (Category 3)
ii	H331	Acute toxicity	: Inhalation (Category 3)
iii	H351	Carcinogenicity	: Causes cancer (Category 2)
iii	H373	Specific Target Organ Toxicity	: Repeated Exposure (Category 2)





2.2 GHS Label elements, including precautionary statements	
i	Pictogram : 
ii	Signal word : Danger
iii	Hazard Statement(s)
	H301 : Acute toxicity
	H331 : Acute toxicity
	H351 : Carcinogenicity
	H373 : Specific Target Organ Toxicity
iv	Precautionary Statement(s)
	P260 : Avoid breathing dust / fumes / gas / mist / vapours / spray
	P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection
	P301 + P330 + P331 + P310 : IF SWALLOWED: Rinse mouth. Do not induce vomiting. Immediately call a poison centre or doctor/ physician
	P304 + P340 + P311 : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison centre or doctor/ physician.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances	
i	Molecular Weight : 366.22 g/mol
ii	Constituent Elements : CdI ₂

4. FIRST AID MEASURES

4.1 Symptoms	
i	Most important symptoms and effects, both acute and delayed
	Initial signs of kidney effects following cadmium exposure include tubular dysfunction, a decreased glomerular filtration rate, and increased proteinuria and enzymuria.
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 : Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
ii	Ingestion : Rinse mouth. Call a doctor immediately.
iii	Skin contact : Rinse skin with water/shower. In case of skin irritation, consult a physician.
iv	Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15minutes.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media	
i	Suitable extinguishing agents : Water spray. Carbon dioxide (CO ₂). Dry chemical. Chemical foam
ii	Special hazards arising from the substance or mixture : Hydrogen iodide (HI)
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	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	Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapour, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.
7.2 Conditions for safe storage, including any incompatibilities	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.
7.3 Specific end use(s)	The product has applications in photography, electroplating and to make phosphors.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters	ACGIH TLV : TWA – 0.01 ppm NIOSH IDLH: IDLH: 9 mg/m ³
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 fine plates 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	5	Relative density	Not determined
Melting/Freezing point	388°C	Solubilities	Not determined
Boiling point	787 °C	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	Not determined	Poison Class	Not determined



10. STABILITY & REACTIVITY

i	Reactivity	: None known, based on information available
ii	Chemical stability	: Stable under normal conditions.
iii	Possible hazardous reactions	: None under normal processing
iv	Conditions to avoid	: Strong oxidizing agents, Acids
v	Incompatible material	: There is no additional information
vi	Hazardous decomposition products	: Hydrogen iodide.



11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects			
	LD50 Oral	Rat	222mg/Kg
11.2 Corrosion Irritation			
	Serious eye damage / irritation		No data available
	Respiratory or skin irritation		No data available
	Germ cell mutagenicity		No data available
	Carcinogenicity		No data available
	Reproductive Toxicity		No data available
11.3 Additional information			
	NA		





12. ECOLOGICAL INFORMATION

12.1 Toxicity	
	No data available
12.2 Persistence and degradability	
(a)	Persistence and degradability
(b)	Biodegradability
(a)	Biodegradation
(b)	No data available
12.3 Bio accumulative potential	
(a)	BCF – Other aquatic organisms
(b)	Partition coefficient n-octanol/water (Log Kow)
(c)	Bioaccumulative potential
(a)	Data not available
(b)	Data not available
(c)	Data not available
12.4 Mobility in Soil	
(a)	Biodegradation in soil
	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
	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
ii	Product / Packaging disposal recommendations
	Do not empty into drains.



14. TRANSPORT INFORMATION

14.1 In accordance with ADR / IMDG / IATA / ADN / RID					
	ADR	IMDG	IATA	ADN	RID
i	UN Number				
	UN 2570	UN 2570	UN 2570	UN 2570	UN 2570
ii	UN proper shipping name				
	Cadmium iodide	Cadmium iodide	Cadmium iodide	Cadmium iodide	Cadmium iodide
iii	Transport hazard class				
	6.1	6.1	6.1	6.1	6.1
iv	Hazardous class symbols				





Samrat Pharmachem Limited

Manufacturers & Exporters of Pharmaceutical Chemicals

v	Packing group	III	III	III	III	III
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

Regulations	
US department of Homeland security	This product does not contain any DHS chemical
California Proposition 65	This product contains the following Proposition 65 chemicals: Carcinogen

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 fire conditions.					
iii	Reactivity : 0-Normally stable, even under fire exposure conditions, and is not reactive with water.					
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