



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

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|--|--|
| 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. A2/3445, 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

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|---|---|
| 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) | Persistence and degradability |
| (b) | Biodegradation |
| 12.3 Bio accumulative potential | |
| (a) | BCF – Other aquatic organisms |
| (b) | Partition coefficient n-octanol/water (Log Kow) |
| (c) | Bioaccumulative potential |
| 12.4 Mobility in Soil | |
| (a) | Biodegradation in soil |
| 12.5 Results of PBT and vPvB assessment | |
| | No data available |
| 12.6 Other adverse effects | |
| | Not known |



13. DISPOSAL CONSIDERATIONS

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|---|---|
| 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 | | | | | |



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16.3 Further Information

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| 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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