



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers		
i	Product Name	: Lithium Iodide
ii	Chemical Formula	: ILi
iii	CAS No.	: 7790-22-9
iv	EC No.	: 233-822-5
v	Hazardous	: Yes
vi	Content	: Minimum 98%
vii	Appearance	: White to beige colored powders
1.2 Relevant identified uses of the substance		
i	Identified uses	: Laboratory chemicals, Food, Animal Feed product use.
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		
i	Emergency Phone	: +91-7045456789 / 7046456789



2. HAZARD IDENTIFICATION

2.1 Classification of substance	
	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.



2.2 GHS Label elements, including precautionary statements

i	Pictogram	:	NA
ii	Signal word	:	NA
iii	Hazard Statement(s)	:	NA
iv	Precautionary Statement(s)	:	NA

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.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

i	Molecular Weight	:	187.9 g/mol
ii	Constituent Elements	:	ILi



4. FIRST AID MEASURES

4.1 Symptoms

i	Most important symptoms and effects, both acute and delayed		
	Large doses of lithium ion have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances have been reported. Central nervous system effects that include slurred speech, blurred vision, sensory loss, ataxia, and convulsions may occur.		
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 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.
	Unsuitable extinguishing agents	: No data available
ii	Special hazards arising from the substance or mixture	: Lithium oxides
iii	Special remarks on Explosion Hazard	: No data available
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 available



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	
	No special environment precaution required.
6.3 Methods and material for containment and cleaning up	
	Sweep up and shovel. Keep in suitable, closed containers for disposal.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling	
	Avoid raising dust. Use earthed equipment. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Keep container tightly closed. 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: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Air and light sensitive. Hygroscopic material. Handle and store under inert gas. Storage class (TRGS 510): Non Combustible Solids
7.3	Specific end use(s)
	Apart from the uses mentioned in section 1.2 it is used as electrolyte for a high-temperature battery, pacemakers and as a phosphor for neutron detection.

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: Powder Colour: Beige	Explosiveness	No data available
Odour	No data available	Vapour pressure	No data available
Odour threshold	No data available	Relative vapour density at 20°C	No data available
pH-value	No data available	Relative density	No data available
Melting/Freezing point	446 °C	Solubilities	No data available
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	3.49 g/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 storage conditions.
iii	Possible hazardous reactions	: No data available
iv	Conditions to avoid	: Avoid moisture
v	Incompatible material	: Strong acids , Oxidizing agents
vi	Hazardous decomposition products	: Lithium oxides



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	Exposure to excessive amounts of iodine during pregnancy is capable of producing fetal hypothyroidism. Iodine-containing drugs have been associated with foetal goiter. Lithium and its compounds are	





		possible teratogens by analogy to lithium carbonate which has equivocal human teratogenic data and positive animal teratogenic data.
11.3	Additional information	
i	No data available	

12. ECOLOGICAL INFORMATION

12.1 Toxicity			
i	Particulars	Type	Value
	Fish LC50	Oncorhynchus mykiss (rainbow trout)	No data available
	Crustacea LC 50	Daphnia magna (planktonic crustacean)	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)	Not classified	
12.2 Persistence and degradability			
i	Persistence and degradability	Biodegradability: not applicable.	
ii	Biodegradation	Not applicable	
12.3 Bio accumulative potential			
i	BCF – Other aquatic organisms	0.027 BCF	
ii	Partition coefficient n-octanol/water (Log Kow)	-4.6296	
iii	Bioaccumulative potential	Not bioaccumulative.	
12.4 Mobility in Soil			
	Highly mobile in soil		
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	NA	NA	NA	NA	NA
ii	UN proper shipping name	NA	NA	NA	NA	NA
iii	Transport hazard class	NA	NA	NA	NA	NA
iv	Hazardous class symbols	Not dangerous goods				
v	Packing group	NA	NA	NA	NA	NA
vi	Environment hazards: Dangerous for the environment	No	No	No	No	No
vii	Marine Pollutant	NA	No	NA	NA	NA
14.2 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	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.



16. OTHER INFORMATION

16.1 NFPA Rating						
i	Health hazard : NA					
ii	Fire hazard : NA					
iii	Reactivity : NA					
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 : NA					
ii	Flammability : NA					
iii	Physical : NA					
iv	Personal Protection : NA					
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