



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers	
i	Product Name : Calcium Iodate Anhydrous
ii	Chemical Formula : $\text{Ca}(\text{IO}_3)_2$
iii	CAS No. : 7789-80-2
iv	EC No. : 232-191-3
v	HSN Code : 28299030
vi	Hazardous : Yes
vii	Content : Minimum 97.5%
viii	Appearance : White to off white odourless crystalline powder
1.2 Relevant identified uses of the substance	
i	Identified uses : Laboratory chemicals, preparation of animal and poultry feed
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

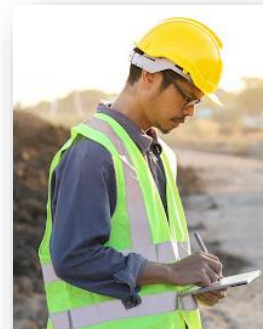
2.1 Classification of substance			
<i>Classification according to Regulation (EC) No 1272/2008</i>			
i	H272	Oxidising solid	: May intensify fire; oxidizer (Category 2)
ii	H315	Skin Corrosion / Irritation	: Causes skin irritation (Category 2)
iii	H319	Eye Irritation	: Causes serious eye irritation (Category 2)
iv	H335	Specific Target Organ Toxicity (Respiratory)	: May cause respiratory irritation; Single Exposure (Category 3)



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2.2 GHS Label elements, including precautionary statements	
i	Pictogram : 
ii	Signal word : Danger
iii	Hazard Statement(s)
	H272 : May intensify fire; oxidizer
	H315 : Causes skin irritation
	H319 : Causes serious eye irritation
	H335 : May cause respiratory irritation
iv	Precautionary Statement(s)
	P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	P220 : Keep/Store away from clothing/.../combustible materials.
	P261 : Avoid breathing dust / fumes / gas / mist / vapours / spray
	P280 : Wear protective clothing, gloves, eye & face equipment
	P302 + P352 : IF ON SKIN: Wash with soap and water.
	P304 + P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305 + P351 + P338 : IF IN EYES: Rise cautiously with water for several minutes. Remove contact lenses in present.
	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	: 389.88 g/mol
Constituent Elements	: Ca(IO ₃) ₂



4. FIRST AID MEASURES

4.1 Symptoms	
i	Most important symptoms and effects, both acute and delayed
	Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.
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 unless directed to do so by medical personnel. Rinse mouth out with water. If you feel still feel unwell, immediately make victim drink a slurry of activated charcoal in water (two glasses at most). 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 extinguishing measures that are appropriate to local circumstances and the surrounding environment.
ii	Special hazards arising from the substance or mixture : Thermal Decomposition releases iodine and / or oxides of iodine. Oxidising property. Non-combustible.
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 : 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	
	Corrosive solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dyke if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the SDS and with local authorities.
6.3 Methods and material for containment and cleaning up	
	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal



7. HANDLING AND STORAGE

7.1 Precautions for safe handling	
	Keep container tightly closed. Avoid contact with clothing and other combustible materials. Do not get on skin or in eyes. Avoid ingestion and inhalation. Use with adequate ventilation. Minimize dust generation and accumulation. Empty containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames
7.2 Conditions for safe storage, including any incompatibilities	
	Store in a cool, dry place. Keep away from heat, sparks, and flame. Do not store near combustible materials. Keep away from reducing agents.
7.3 Specific end use(s)	
	Apart from the uses mentioned in section 1.2 the product has applications in the food industry as dough conditioner, also used in skin care lotion, ointments and deodorants.





8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control Parameters
	No data available
8.2	Exposure Controls
i	<i>Appropriate engineering controls</i>
	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.
ii	<i>Personal protective equipment</i>
(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 to off white	Explosive nature	Does not possess
Odour	Odourless	Vapour pressure	0 Pa at 25 °C
Odour threshold	Not determined	Relative vapour density at 20°C	Not determined
pH-value	9.15 at 26°C	Relative density	Not determined
Melting/Freezing point	540 °C	Solubilities	~210 g /l at 25 °C (ECHA)
Boiling point	Not determined	Partition coefficient (n-octanol/water)	-5.28 (25 °C) (ECHA)
Flash Point	Not determined	Auto/Self-ignition temperature	Not determined
Evaporation rate	Not determined	Decomposition temperature	Not determined
Flammability	950°C	Viscosity	Not determined
Density	4.79 g /cm ³ at 25 °C (ECHA)	Poison Class	Not determined



10. STABILITY & REACTIVITY

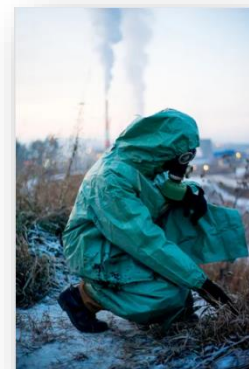
(a)	Reactivity	: It's a reactive substance. Oxidising property.
(b)	Chemical stability	: The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
(c)	Possible hazardous reactions	: Violent reaction with: Reducing agents, Combustible materials
(d)	Conditions to avoid	: Avoid high temperatures exposure to direct sunlight, & avoid contact with incompatible materials.
(e)	Incompatible material	: Reducing agents, active metals, alcohols, aluminium, copper, halogens, phosphorus, sulphur.
(f)	Hazardous decomposition products	: Iodine & / or oxides of Iodine, Hydrogen Iodide





11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects			
	Oral	LD50 mouse	358.7 mg/kg
11.2 Corrosion Irritation			
	Serious eye damage / irritation		Causes serious eye irritation
	Respiratory or skin irritation		Shall not be classified as respiratory or skin sensitizer.
	Germ cell mutagenicity		Shall not be classified as mutagenic.
	Carcinogenicity		Not classified
	Reproductive Toxicity		Not classified
11.3 Additional information			
	NA		



12. ECOLOGICAL INFORMATION

12.1 Toxicity			
i	Particulars	Type	Value
	Fish LC50	Oncorhynchus mykiss (rainbow trout)	380.6 mg/l
12.2 Persistence and degradability			
(a)	Persistence and degradability		Biodegradability
(b)	Biodegradation		Highly biodegradable
12.3 Bio accumulative potential			
(a)	BCF – Other aquatic organisms		3.162 (ECHA)
(b)	Partition coefficient n-octanol/water (Log Kow)		-5.28 (25 °C) (ECHA)
(c)	Bioaccumulative potential		Low bioaccumulation potential
12.4 Mobility in Soil			
(a)	Biodegradation in soil		The substance will have a lower biodegradation in soil as compared to other pathways.
12.5 Results of PBT and vPvB assessment			
	No data available		
12.6 Other adverse effects			
	Not known		





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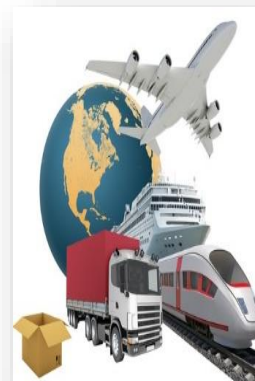
13. DISPOSAL CONSIDERATIONS

13.1 Waste disposal recommendation's	
i	General instructions
	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal Company.
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 1479	UN 1479	UN 1479	UN 1479	UN 1479
ii	UN proper shipping name				
	Calcium Iodate Anhydrous	Calcium Iodate Anhydrous	Calcium Iodate Anhydrous	Calcium Iodate Anhydrous	Calcium Iodate Anhydrous
iii	Transport hazard class				
	5.1	5.1	5.1	5.1	5.1
iv	Hazardous class symbols				
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
14.2 Special precautions for user					
i	Overland Transport				



15. REGULATORY INFORMATION

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



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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 : 0 - Materials that will not burn under typical dire conditions, including intrinsically non-combustible materials such as concrete, stone, and sand.					
iii	Reactivity : 0 - 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.