



### SAFETY DATA SHEET

#### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers	
i	Product Name : <b>Sodium Iodate</b>
ii	Chemical Formula : $\text{NaIO}_3$
iii	CAS No. : 7681-55-2
iv	EC No. : 231-672-5
v	HSN Code : 28299030
vi	Hazardous : Yes
vii	Content : Minimum 99.5%
viii	Appearance : White Crystalline Powder
1.2 Relevant identified uses of the substance	
i	Identified uses : Laboratory chemicals, oxidizing agent, dough conditioner
1.3 Details of Manufacturer	
i	Company : <b>Samrat Pharmachem Limited</b>
ii	Address : Plot No. A2/3444-3445, GIDC, Phase 4, Ankleshwar – 393002, Gujarat, India.
iii	Phone : +91-7045456789 / 7046456789
iv	Email : <a href="mailto:contact@samratpharmachem.in">contact@samratpharmachem.in</a>
v	Webpage : <a href="http://www.samratpharmachem.com">www.samratpharmachem.com</a>
1.4 Emergency Number	
	Emergency Phone : +91-7045456789 / 7046456789




#### 2. HAZARD IDENTIFICATION

2.1 Classification of substance			
i	H272	Oxidizing solids	: May intensify fire; oxidizer (Category 2)
ii	H302	Acute Oral Toxicity	: Harmful if swallowed (Category 4)
iii	H317	Skin sensitization	: May cause an allergic skin reaction.. (Category 1)
iv	H334	Respiratory sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Category 1)



# Samrat Pharmachem Limited

Manufacturers & Exporters of Pharmaceutical Chemicals

2.2 GHS Label elements, including precautionary statements	
i	Pictogram : 
ii	Signal word : Danger
iii	Hazard Statement(s)
	H272 : May intensify fire; oxidizer
	H302 : Harmful if swallowed
	H317 : May cause an allergic skin reaction.
	H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
iv	Precautionary Statement(s)
	P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220 : Keep away from clothing and other combustible material.
	P261 : Avoid breathing dust / fumes / gas / mist / vapours / spray
	P264 : Wash exposed skin thoroughly after handling
	P280 : Wear protective clothing, gloves, eye & face equipment
	P301 + P330 + P331 : IF SWALLOWED: rinse mouth. DO NOT induce vomiting
	P303 + P361 + P353 : IF ON SKIN (or hair): Remove all contaminated clothing. Rise skin with water/shower
	P312 : Immediately call a poison centre or doctor / physician
	P333 + P313 : If skin irritation or rash occurs: Get medical advice / attention
	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
This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances	
Molecular Weight	: 197.89 g/mol
Constituent Elements	: $\text{NaIO}_3$



### 4. FIRST AID MEASURES

<b>4.1 Symptoms</b>	
i	<b>Most important symptoms and effects, both acute and delayed</b> Irritation, Shortness of breath, Headache, Nausea, Dizziness, Vomiting, Diarrhea, Rash, Stomach - Irregularities - Based on Human Evidence.
ii	<b>Indication of any immediate medical attention &amp; special treatment needed</b> If seeking medical attention, provide SDS document to physician.
<b>4.2 Description of first aid measures</b>	
i	<b>Inhalation</b> : 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	<b>Ingestion</b> : 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 water. Consult a doctor.
iii	<b>Skin contact</b> : 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	<b>Eye contact</b> : 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

<b>5.1 Extinguishing media</b>	
i	<b>Suitable extinguishing agents</b> : Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam  <b>Unsuitable extinguishing agents</b> : Do not use a heavy water stream.
ii	<b>Special hazards arising from the substance or mixture</b> : Air, light, and moisture sensitive. Thermal decomposition can lead to release of irritating gases and vapors. Flammable in presence of reducing materials. Hydrogen iodide, Sodium oxides Not combustible. Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapours.
iii	<b>Special remarks on Explosion Hazard</b> : Heating may cause an explosion.
iv	<b>Advice for firefighters</b> : 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	<b>Additional information</b> : Avoid dust generation. Remove heat, sparks, and all sources of ignition. Avoid inhaling gases, fumes,





dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

### 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment &amp; emergency procedures</b>	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. Ensure that air-handling systems are operational.
<b>6.2 Environmental precautions</b>	Should not be released into environment. Prevent from reaching drains, sewer, or waterway.
<b>6.3 Methods and material for containment and cleaning up</b>	Sweep up and shovel. Wear protective eye wear, gloves, and clothing. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Keep in suitable closed containers for disposal. Absorb with inert material.



### 7. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	Avoid dust generation. Remove heat, sparks, and all sources of ignition. Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Air, light, and moisture sensitive. Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.
<b>7.3 Specific end use(s)</b>	Apart from the uses mentioned in section 1.2 the product has applications in nutrition, leavened products such as bread, rolls, and sweet rolls, trace mineral in animal feed.





### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>8.1 Control Parameters</b>	
i	No data available
<b>8.2 Exposure Controls</b>	
i	<i>Appropriate engineering controls</i>
	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
ii	Personal protective equipment
(a)	Eye / face protection
	Face shield and tight fitting goggles are appropriate eye protection. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
(b)	Skin Protection
	Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.
(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
	Not required under normal conditions of use. 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. When necessary use NIOSH approved breathing equipment.
(e)	Control of environmental exposure
	Do not let product enter drains.





### 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Form: Solid Colour: White Crystalline Powder	<b>Flammability</b>	Not determined
<b>Odour</b>	Odourless	<b>Vapour pressure</b>	Not determined
<b>Odour threshold</b>	Not determined	<b>Relative vapour density at 20°C</b>	Not determined
<b>pH-value</b>	5.5 to 7.0	<b>Relative density</b>	Not determined
<b>Melting/Freezing point</b>	Not determined	<b>Solubilities</b>	Not determined
<b>Boiling point</b>	Not determined	<b>Partition coefficient (n-octanol/water)</b>	Not determined
<b>Flash Point</b>	Not determined	<b>Auto/Self-ignition temperature</b>	Not determined
<b>Evaporation rate</b>	Not determined	<b>Decomposition temperature</b>	Not determined
<b>Flammability</b>	Not determined	<b>Viscosity</b>	Not determined
<b>Density</b>	4.28 g/mL at 25 °C	<b>Poison Class</b>	Not determined



### 10. STABILITY & REACTIVITY

(a)	Reactivity	: Non-reactive under normal conditions.
(b)	Chemical stability	: Stable under normal temperature and pressure.
(c)	Possible hazardous reactions	: None under normal processing.
(d)	Conditions to avoid	: Avoid high temperatures exposure to direct sunlight, & avoid contact with incompatible materials
(e)	Incompatible material	: Strong reducing agents, Powdered metals, Incompatibility: mixtures of iodates with finely divided aluminum, arsenic, copper, carbon, phosphorous (red or white) sulfur; hydrides of alkali and alkaline earth metals; sulfides of antimony, arsenic, copper or tin, metal cyanides, thiocyanates or impure manganese dioxide may react violently or explosively, either spontaneously (especially in the presence of moisture) or on initiation by heat, friction impact, sparks, or addition of sulfuric acid.
(f)	Hazardous decomposition products	: Hydrogen iodide, Sodium oxides



### 11. TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>			
	Oral	LD50 Rat	505 mg/kg
<b>11.2 Corrosion Irritation</b>			
	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



### 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>			
i	<b>Particulars</b>	<b>Type</b>	<b>Value</b>
	Fish LC50	Oncorhynchus mykiss (rainbow trout)	220 mg/L
<b>12.2 Persistence and degradability</b>			
(a)	Persistence and degradability		Biodegradability
(b)	Biodegradation		No data available
<b>12.3 Bio accumulative potential</b>			
(a)	BCF – Other aquatic organisms		No data available
(b)	Partition coefficient n-octanol/water (Log Kow)		No data available
(c)	Bioaccumulative potential		No data available
<b>12.4 Mobility in Soil</b>			
(a)	Partition coefficient n-octanol/water (Log Koc)		No data available
<b>12.5 Results of PBT and vPvB assessment</b>			
	No data available		
<b>12.6 Other adverse effects</b>			
	Not known		



### 13. DISPOSAL CONSIDERATIONS


<b>13.1 Waste disposal recommendation's</b>	
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
	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				
	Sodium Iodate	Sodium Iodate	Sodium Iodate	Sodium Iodate	Sodium Iodate
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	No	Not applicable	Not applicable	Not applicable



### 15. REGULATORY INFORMATION

15.1	Regulations
i	This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.
ii	SARA Section 311/312 (Specific toxic chemical listings): Reactive, Acute, Chronic





### 16. OTHER INFORMATION

<b>16.1 NFPA Rating</b>										
i	Health hazard	: 2 - Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury.								
ii	Fire hazard	: 1 - Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur								
iii	Reactivity	: 2 - Undergoes violent chemical change at elevated temperatures and pressures, reacts violently with water, or may form explosive mixtures with water								
<b>16.2 HMIS Rating</b>		<table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>2</td> </tr> <tr> <td>Personal protection</td> <td>X</td> </tr> </table>	Health	2	Fire	1	Reactivity	2	Personal protection	X
Health	2									
Fire	1									
Reactivity	2									
Personal protection	X									
i	Health	: 2 - Temporary or minor injury may occur								
ii	Flammability	: 1 - Materials that will not burn								
iii	Physical	: 2 - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion								
vi	Personal Protection	: X –No specificities are defined								
<b>16.3 Further Information</b>										
	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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