



### SAFETY DATA SHEET

#### 1. PRODUCT AND COMPANY IDENTIFICATION


1.1 Product identifiers	
i	Product Name : <b>Potassium Metaperiodate</b>
ii	Chemical Formula : $KIO_4$
iii	CAS No. : 7790-21-8
iv	EC No. : 232-196-0
v	HSN Code : 28299030
vi	Hazardous : Yes
vii	Content : Minimum 99.0%
viii	Appearance : White crystalline powder
1.2 Relevant identified uses of the substance	
i	Identified uses : Laboratory chemicals
1.3 Details of Manufacturer	
i	Company : <b>Samrat Pharmachem Limited</b>
ii	Address : Plot No. A2/3445, 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

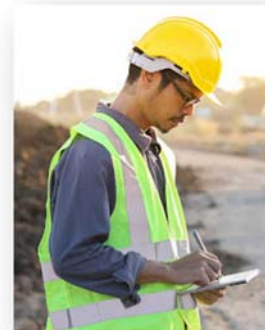


#### 2. HAZARD IDENTIFICATION

2.1 Classification of substance			
i	H272	Oxidizing Solids,	: May intensify fire; oxidiser (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)



2.2 GHS Label elements, including precautionary statements	
i	Pictogram : 
ii	Signal word : Danger
iii	Hazard Statement(s)
	H272 : May intensify fire; oxidiser
	H315 : Causes skin irritation
	H319 : Causes serious eye irritation
	H335 : May cause respiratory irritation
iv	Precautionary Statement(s)
	P261 : Avoid breathing dust / fumes / gas / mist / vapours / spray
	P264 : Wash exposed skin thoroughly after handling
	P271 : Use outdoors or in a well-ventilated area
	P280 : Wear protective clothing, gloves, eye & face equipment
	P303 + P361 + P353 : IF ON SKIN (or hair): Remove all contaminated clothing. Rise skin with water/shower
	P305 + P351 + P338 : IF IN EYES: Rise cautiously with water for several minutes. Remove contact lenses in present.



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 : 230.00 g/mol
	Constituent Elements : KIO <sub>4</sub>

### 4. FIRST AID MEASURES

4.1 Symptoms	
i	<b>Most important symptoms and effects, both acute and delayed</b> Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.
ii	<b>Indication of any immediate medical attention &amp; special treatment needed</b> 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 water. 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 immediately.
iv	Eye contact : In case of eye irritation consult an ophthalmologist. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

### 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media	
i	Suitable extinguishing agents : co-ordinate firefighting measures to the fire surroundings water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder Unsuitable extinguishing agents : Waterjet.
ii	Special hazards arising from the substance or mixture : Oxidising property. Non-combustible.
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 : 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	
	Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Avoid contact with skin, eyes and clothes. Do not breathe dust.



<b>6.2 Environmental precautions</b>	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
<b>6.3 Methods and material for containment and cleaning up</b>	Keep away from clothing and other combustible materials. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

## 7. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	Handle and open container with care. Provision of sufficient ventilation. Avoid dust formation. Clear contaminated areas thoroughly.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Store under an inert atmosphere. Protect from moisture. Corrosives area. Incompatible Materials. Strong oxidizing agents. Reducing Agent. Strong reducing agents. Combustible material. Amines. Finely powdered metals.
<b>7.3 Specific end use(s)</b>	Apart from the uses mentioned in section 1.2 the product has applications in the industries as an oxidizing agent in organic synthesis and an analytical reagent for the determination of potassium and cerium. It is also used in colorimetric estimation of manganese.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>8.1 Control Parameters</b>	
i	Ingredients with workplace control parameters
	No data available
<b>8.2 Exposure Controls</b>	
i	<i>Appropriate engineering controls</i>
	Ensure adequate ventilation, especially in confined areas. Ensure that eye wash stations and safety showers are close to the workstation location.
ii	<i>Personal protective equipment</i>
(a)	Eye / face protection
	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
(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
	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
(e)	Control of environmental exposure
	Do not let product enter drains.



### 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Form: Powder Solid Colour: White	<b>Flammability</b>	Non combustible
<b>Odour</b>	Odourless	<b>Vapour pressure</b>	Not determined
<b>Odour threshold</b>	Not determined	<b>Relative vapour density at 20°C</b>	7.9
<b>pH-value</b>	4.5 - 5.5	<b>Relative density</b>	Not determined
<b>Melting/Freezing point</b>	582 °C	<b>Solubilities</b>	Water: 2.3 g/L
<b>Boiling point</b>	Not determined	<b>Partition coefficient (n-octanol/water)</b>	Not relevant
<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>	Non combustible	<b>Viscosity</b>	Not determined
<b>Density</b>	3.62 g/cm <sup>3</sup>	<b>Poison Class</b>	Not determined



### 10. STABILITY & REACTIVITY

(a)	Reactivity	:	It is a reactive substance having 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 reactions with strong oxidiser
(d)	Conditions to avoid	:	There are no specific conditions known which have to be avoided.
(e)	Incompatible material	:	Strong oxidizing agents
(f)	Hazardous decomposition products	:	Hydrogen iodide.





### 11. TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
No data available	
<b>11.2 Corrosion Irritation</b>	
	Serious eye damage / irritation
	Causes serious eye irritation, pain , burns
	Respiratory or skin irritation
	Irritation to respiratory tract, cough, dyspnoea, severe skin burns
	Germ cell mutagenicity
	No data available
	Carcinogenicity
	No data available
	Reproductive Toxicity
	No data available
<b>11.3 Additional information</b>	
i	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)	0.17 mg/l
	Crustacea LC 50	Daphnia magna (planktonic crustacean)	0.18 mg/l, 48 hours
	Other aquatic invertebrates ErC 50	Algae	1.1 mg/l, 72 hours
<b>12.2 Persistence and degradability</b>			
(a)	Persistence and degradability	Biodegradability	
(b)	Biodegradation	Not applicable	
<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

13.1 Waste disposal recommendation's	
i	General instructions
	This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations. Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.
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 3085	UN 3085	UN 3085	UN 3085	UN 3085
ii	UN proper shipping name				
	Potassium Metaperiodate	Potassium Metaperiodate	Potassium Metaperiodate	Potassium Metaperiodate	Potassium Metaperiodate
iii	Transport hazard class				
	5.1	5.1	5.1	5.1	5.1
iv	Hazardous class symbols				
					
v	Packing group				
	I	I	I	I	I
vi	Environment hazards: Dangerous for the environment				
	Yes	Yes	Yes	Yes	Yes
vii	Marine Pollutant				
	Not applicable	Yes	Not applicable	Not applicable	Not applicable
<b>14.3 Transport in bulk according to annexure II of Marpol and the IBC Code</b>					
	IBC Code		Not applicable		

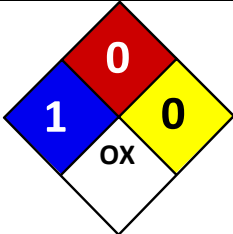




### 15. REGULATORY INFORMATION

15.1	Regulations
i	No REACH Annexure XVII restrictions
ii	Potassium Metaperiodate is not the REACH Candidate List
iii	Potassium Metaperiodate is not on the REACH Annexure XIV List

### 16. OTHER INFORMATION

16.1 NFPA Rating	
	
i	Health hazard : 1 - Exposure would cause irritation with only minor 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.
iv	OX : Oxidizing material
16.2 HMIS Rating	
No data available	
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.	

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