

Manufacturers & Exporters of Pharmaceutical Chemicals

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers		
i	Product Name	:	Sodium Metaperiodate
ii	Chemical Formula	:	NaIO ₄
iii	CAS No.	:	7790-28-5
iv	EC No.	:	232-197-6
٧	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, Oxidizing agents
1.3	Details of Manufactu	ıre	r
i	Company	:	Samrat Pharmachem Limited
			Plot No. A2/3445,
lii	Address		GIDC, Phase 4,
"	Addiess	•	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	Class	ification of substance		
i	H272	Oxidizing solids	:	May intensify fire; oxidizer (Category 2)
ii	H314	Skin corrosion	:	Causes severe skin burns and eye damage. (Sub-category 1C)
iii	H318	Serious eye damage	:	Causes serious eye damage (Category 1)
iv	H372	Specific target organ toxicity - repeated exposure, thymus gland	:	Causes damage to organs (thymus gland) through prolonged or repeated exposure. (Category 1),
٧	H412	Long-term (chronic) aquatic hazard	:	Harmful to aquatic life with long lasting effects. (Category 3)



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2.2	GHS Label element	s, i	including precautionary statements
i	Pictogram	:	
ii	Signal word	:	Danger
iii	Hazard Statement(s)		
	H272	:	May intensify fire; oxidizer
	H314	:	Causes severe skin burns and eye damage.
	H318	:	Causes serious eye damage.
	H335	:	May cause respiratory irritation
	H372	:	Causes damage to organs (thyroid gland) through prolonged or repeated exposure
	H412	:	Very toxic to aquatic life
iv	Precautionary Stateme	ent(s)
	P210	:	Keep away from heat.
	P220	:	Keep/Store away from clothing/ combustible materials.
	P221	:	Take any precaution to avoid mixing with combustibles.
	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
	P273	:	Avoid release to the environment
	P280	:	Wear protective clothing, gloves, eye & face equipment
	P283	:	Wear fire/ flame resistant/ retardant clothing.
	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
	P304 + P340 + P310	:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician
	P305 + P351 + P338	:	IF IN EYES: Rise cautiously with water for several minutes. Remove contact lenses in present.
	P306 + P360	:	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes
	P370 + P378	:	In case of fire: Use dry sand, dry chemical or alcohol- resistant foam for extinction
	P371 + P380 + P375	:	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.







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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	:	213.89 g/mol
	Constituent Elements	:	NalO ₄

4. FIRST AID MEASURES

4.1	Symptoms					
i	Most important symptoms and effects, both acute and delayed					
	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Causes severe skin burns and eye damage. Causes damage to organs through prolonged or repeated exposure.					
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 as there is risk of stomach perforation. Rinse mouth out with water. If you feel still feel unwell, immediately make victim drink 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.					





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5. FIRE FIGHTING MEASURES

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5.1	Extinguishing media	3	
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	:	Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Corrosive material. Thermal decomposition can lead to release of irritating gases and vapors. Hydrogen iodide Sodium oxides silicon oxides Not combustible. Has a fire-promoting effect due to release of oxygen. Ambient fire may liberate hazardous vapours.
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
	Use personal protective equipment as required. Evacuate personnel to safe areas.
	Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or
	on clothing.
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
	Keep combustibles (wood, paper, oil, etc.) away from spilled material. Sweep up
	and shovel into suitable containers for disposal. Avoid dust formation.





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7. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Use only under a chemical fume hood. Wear personal protective equipment/face
	protection. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed
	then seek immediate medical assistance. Do not breathe (dust, vapour, mist, gas).
	Avoid dust formation. Keep away from clothing and other combustible materials
7.2	Conditions for safe storage, including any incompatibilities
	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives
	area. Do not store near combustible materials. Incompatible Materials. Strong
	oxidizing agents. Strong reducing agents. Combustible material.
7.3	Specific end use(s)
	Apart from the uses mentioned in section 1.2 the product has applications as
	recovery and cleaning agent of screen printing ink.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Control Parameters
	No data available
8.2	Exposure Controls
i	Appropriate engineering controls
	Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the work station 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.
(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.







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9. PHYSICAL & CHEMICAL PROPERTIES

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Appearance	Form: Solid	Explosiveness	Not determined
	crystalline		
	Colour: White to pale		
	yellow		
Odour	Odourless	Vapour pressure	Not determined
Odour threshold	Not determined	Relative vapour	Not determined
		density at 20°C	
pH-value	3.5 - 5.5	Relative density	3.860 g/cm3
Melting/Freezing	300 °C	Solubilities	107 g/L (20°C) in
point			water
Boiling point	Not determined	Partition	Not determined
		coefficient (n-	
		octanol/water)	
Flash Point	Not determined	Auto/Self-ignition	Not determined
		temperature	
Evaporation rate	Not determined	Decomposition	Not determined
		temperature	
Flammability	Not flammable	Viscosity	Not determined
Density	3.8 g/cm ³	Poison Class	Not determined



10. STABILITY & REACTIVITY

(a)	Reactivity	:	Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire.
(b)	Chemical stability	:	The product is chemically stable under standard ambient conditions (room temperature) .
(c)	Possible hazardous reactions	:	None under normal processing. Can react violently on contact with incompatibles
(d)	Conditions to avoid	:	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
(e)	Incompatible material	:	Reducing agents, strong oxidizing agent, Combustible materials
(f)	Hazardous decomposition products	:	Sodium oxides.





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11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects		
	No data available		
11.2	Corrosion Irritation		
	Serious eye damage / irritation	Causes serious eye irritation	
	Respiratory or skin irritation	No data available	
	Germ cell mutagenicity	No data available	
	Carcinogenicity	No data available	
	Reproductive Toxicity	Not classified	
11.3	Additional information		
i	No data available		



12. ECOLOGICAL INFORMATION

12.1	Toxicity				
i	Particulars	Туре		Value	
	Fish LC50	Oncorhynchus myk	iss	> 0.17 mg/L	
		(rainbow trout)			
	Crustacea LC 50	Daphnia magna (wa	ater	0.18 mg/l – 48 h	
		flea)			
	Other aquatic invertebrates	Algae		1.1 mg/l - 72 h	
	ErC 50				
12.2	Persistence and degradability				
(a)	Persistence and degradability	Biode		egradability	
(b)	Biodegradation	No da		ata available	
12.3	Bio accumulative potential				
(a)	BCF – Other aquatic organisms No		No d	lata available	
(b)	Partition coefficient n-octanol	water (Log Kow) No da		ata available	
(c)	Bioaccumulative potential	No da		ata available	
12.4	Mobility in Soil				
(a)	Partition coefficient n-octanol/water (Log Koc) No		No d	data available	
	'				
12.5	Results of PBT and vPvB assessment				
	No data available				
12.6	Other adverse effects				
	Very toxic to aquatic life.				





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13. DISPOSAL CONSIDERATIONS

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
	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 shipp	UN proper shipping name					
	Sodium	Sodium	Sodium	Sodium	Sodium		
	Metaperiodate	Metaperiodate	Metaperiodate	Metaperiodate	Metaperiodate		
iii	Transport hazard class						
	5.1 (8)	5.1 (8)	5.1 (8)	5.1 (8)	5.1 (8)		
iv	Hazardous class symbols						
10	\hat{\parabold}	- Contractor	<u> </u>				
V							
	Packing group			II	II		
	Packing group				II		
V	Packing group				II Yes		
V	Packing group II Environment ha	II zards: Dangerous	s for the environm	nent			



15. REGULATORY INFORMATION

15.1	Regulations
i	California Proposition 65: This product does not contain any Proposition 65
	chemicals.
ii	This material safety data sheet complies with the requirements of Regulation (EC)
	No. 1907/2006.



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16. OTHER INFORMATION

16.1	NFPA Rating		2 3
i	Health hazard	 2 - Intense or continued but not ch cause temporary incapacitation of injury. 	
ii	Fire hazard	: 0 - Materials that will not burn conditions, including intrinsical materials such as concrete, stone, a	ly non-combustible and sand.
iii	Reactivity	 3 - Capable of detonation or explosi- requires a strong initiating source, n confinement before initiation, rea water, or will detonate if severely sh 	nust be heated under cts explosively with
16.2	HMIS Rating		Health 2 Fire 0 Reactivity 3 Personal protection
i	Health	: 2- Temporary or minor injury may	occur
ii	Flammability	0 - Materials that will not burn	
iii	Physical	 3 - Materials that may form expl water and are capable of detor reaction in the presence of a stron 	nation or explosive
iv	Personal Protection	: 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.		

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