

BBC Biochemical MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Common Name: Periodic Acid	Code: RW0068
Supplier: BBC Biochemical	MSDS#: RW0068
Synonym: Hydrogen periodate	Validation Date: 3-6-09
Trade Name: Not Available	Print Date: 3-6-09
Material Uses: Not Available	Responsible Name: Dr. B
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477

Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	Exposure Limits
1) Periodic Acid	10450-60-9	100	Not available.

Section 3. Hazards Identification

Physical State and Appearance	White Solid.
Emergency Overview	Not available.
Routes of Entry	May be harmful by inhalation, ingestion or skin absorption.
Potential Acute Health Effects	<p>Eyes Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering and itching. Hazardous in case of eye contact (corrosive).</p> <p>Skin Very hazardous in case of skin contact (irritant). Hazardous in case of skin contact (corrosive, permeator). Prolonged exposure may result in skin burns and ulcerations. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p>Inhalation Very hazardous in case of inhalation. Over-exposure by inhalation may cause respiratory irritation.</p> <p>Ingestion Slightly hazardous in case of ingestion</p>
Potential Chronic Health Effects	Not Available.
Medical Conditions Aggravated by Overexposure/Overexposure/Signs/Symptoms	<p>Repeated or prolonged exposure is not known to aggravate medical condition.</p> <p>Loss of appetite, inability to concentrate. Headache, irritation of eyes, nose, throat.</p>

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with copious amounts of water for at least 15 minutes. Get medical attention immediately.
Skin Contact	Immediately wash skin with copious amounts of water.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.
Ingestion	Wash out mouth with water provided person is conscious. Loosen clothing such as a collar, tie, belt or waistband. Do NOT induce vomiting unless directed to do so by medical personnel.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures

Flammability of the Product	May be combustible at high temperature.
Auto-ignition Temperature	Not available.
Flash Points	Closed Cup: 90 deg C (194 deg F)
Flammable Limits	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence Of Various Substances	Slightly flammable to flammable in presence of open flames and sparks of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various	Vapor may travel considerable distance to source of ignition and flash back.

Substances

Fire Fighting Media and Instructions	Carbon dioxide, dry chemical powder or appropriate foam. Do not use water jet. Use flooding quantities of water. Avoid contact with organic materials.
Protective Clothing (Fire)	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Special Remarks on Fire Hazards	Emits toxic fumes under fire conditions.
Special Remarks on Explosion Hazards	Vapor may travel considerable distance to source of ignition and flash back.

Section 6. Accidental Release Measures

Small Spill and Leak	Evacuate area. Shut off all sources of ignition. Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Evacuate area. Shut off all sources of ignition. Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7, Handling and Storage

Handling	Avoid prolonged exposure or repeated exposure. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Empty containers pose a fire risk, evaporate the residue under a fume hood. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals, alkalis.
Storage	Keep away from heat, sparks, and open flame. Store in a cool dry place. Separate from acids, reducing agents and combustibles. Do not store above 25 deg C (77 deg F)

Section 8. Exposure Controls / Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
Eyes	Safety goggles required.
Body	Protective clothing advised. Lab coat.
Respiratory	Wear appropriate NIOSH/MSHA-approved respirator.
Hands	Chemical resistant gloves.
Feet	Rubber boots advised.
Personal Protection in Case of a Large Spill	Same as above.
Product Name	Exposure Limits
1) Periodic Acid	None established.
Consult Local authorities before acceptable exposure limits.	

Section 9. Physical and Chemical Properties

Physical State and Appearance	White Solid	Odor:	None reported
Molecular Weight	227.96	Taste:	Not available.
Molecular Formula	Not available.	Color:	White.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	Not applicable.		
Melting/Freezing Point	Not applicable.		
Critical Temperature	Not applicable.		
Specific Gravity	Not applicable.		
Vapor Pressure	Not applicable.		
Vapor Density	Not applicable.		
Volatility	Not applicable.		
Odor Threshold	Not applicable.		
Evaporation Rate	Not applicable.		
VOC	Not available.		
Viscosity	Not available.		
Ionicity (in water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Soluble in water.		
Physical Chemical Comments	Not available.		

Section 10. Stability and Reactivity

Stability and Reactivity	Stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Incompatible with strong oxidizing agents.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Not available.

Section 11. Toxicological Information

Toxicity to Animals	Not available.
Chronic Effects on Humans	May be harmful by inhalation, ingestion, or skin absorption.
Other Toxic Effects on Humans	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BODS and COD	Not available.
Biodegradable/OEDC	Not available.
Mobility	Not available.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on The Products of Biodegradation	Not available.

Section 13. Disposal Considerations

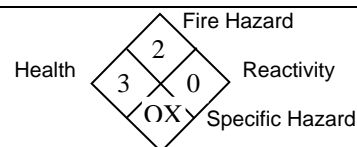
Waste Information	Not available.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Class 5.1: Oxidizing Material. Oxidizing Solid, Corrosive, n.o.s. (Periodic Acid) UNNA: 3085 PG: III
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Not available
ADR/RID Classification	Not available
IMO/IMDG Classification	Not available
ICAO/IATA Classification	See IATA Regulations Class 5.1: Oxidizing Material. Oxidizing Solid, Corrosive, n.o.s. (Periodic Acid) UNNA: 3085 PG: III

Section 15. Other Information

Label requirements			
Hazardous Material Information System (U.S.A.)	Health	3	National Fire Protection Association (U.S.A.)
	Fire Hazard	1	
	Reactivity	0	
	Personal Protection	e	
References			
Other Special Considerations			



Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.