

MATERIAL SAFETY DATA SHEET

OSHA - Meets 29 CFR 1910.1200 Standards	HMIS HAZARD RATINGS			
	HEALTH FLAMMABILITY PHYSICAL HAZARD	1 0 0	* = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT	2 = MODERATE 3 = HIGH 4 = EXTREME
	TRANSPORTATION INFORMATION			
	PROPER SHIPPING NAME: Corrosive liquid, n.o.s. (phosphoric acid) HAZARD CLASS / PKG GRP: 8 / III IDENTIFICATION NUMBER: UN 1760 REF: 49 CFR 173.154, .203, .241 LABEL: CORROSIVE			

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST) <i>IOCIDÉ</i>		Page 1 of 2
DISTRIBUTED BY Bond Water Technologies, Inc.	EMERGENCY TELEPHONE NUMBER CHEMTREC 800-424-9300	
ADDRESS (NUMBER, STREET, P.O. BOX) 630 East Diamond Avenue, Suite J/K	TELEPHONE NUMBER FOR INFORMATION (301) 721-2663	
(CITY, STATE AND ZIP CODE) Gaithersburg, MD 20877	DATE PREPARED: SUPERSEDES:	

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS #	% (OPTIONAL)	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PPM	MG/M3	PPM	MG/M3		
Iodine (a,b)	7553-56-2	0.1 - 1	0.1 C	1 C	0.1 C			
Phosphoric acid (c,d)	7664-38-2	1 - 5		1	1	Yes	5000	

(a) A "C" in the OSHA PEL or ACGIH TWA column indicates ceiling limits, the concentration that should not be exceeded during any part of the working exposure.

(b) 0.35% titratable iodine from alpha-(p-Nonylphenyl)-omega-hydroxypoly (oxyethylene)-iodine complex

(c) A "YES" in the SARA TITLE III column in Section 2 indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

(d) The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture > 24,000 lbs) or greater amounts, according to 40 CFR 302.

SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
INHALATION: Corrosive and irritating to upper respiratory tract. Do not breathe mist.	Remove affected person to fresh air; if breathing has not returned to normal within a few minutes after exposure, get medical attention.
SKIN: Corrosive and irritating; chemical burns may result from contact.	Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.
EYES: CORROSIVE; Causes irreversible eye damage, Contact with eyes is painful and irritating and will cause chemical burns.	Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.
INGESTION: May be fatal if swallowed. Corrosive and irritating to digestive tract; vomiting may occur.	Drink two glasses of water followed by milk, milk of magnesia or other non-alcoholic liquids; DO NOT induce vomiting; seek medical attention immediately.
HEALTH HAZARDS (ACUTE AND CHRONIC): Corrosive to skin and eyes; prolonged inhalation of this product may cause ulcers to the upper respiratory tract; no long term health effects are known at this time, however, repeated contact with eyes may cause severe irritation.	

CARCINOGENICITY	NTP?	No	IARC MONOGRAPHS?	No	OSHA REGULATED?	No
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986 - there are no reportable chemicals present known to the state to cause cancer or reproductive toxicity.						

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

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SECTION 4 - FIRE FIGHTING MEASURES			
FLASH POINT (METHOD USED) Non-flammable	NFPA RATING None	FLAMMABLE LIMITS LEL: Not applicable	UEL: Not applicable
EXTINGUISHING MEDIA Carbon dioxide, water, water fog, dry chemical, chemical foam			
SPECIAL FIRE FIGHTING PROCEDURES Keep containers cool with water spray to prevent container rupture due to steam buildup; CAUTION - material is corrosive.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			
SECTION 5 - ACCIDENTAL RELEASE MEASURES			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - CORROSIVE. Neutralize acid with soda ash, neutralize iodine with sodium thiosulfite or sodium sulfite. Wash to sanitary sewer if in accordance with local, state and federal regulations. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424 - 8802; refer to SARA Title III, Section 313 40 CFR 372, and CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.			
SECTION 6 - HANDLING AND STORAGE			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid contamination of food or feedstuff. Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. CAUTION - material is corrosive. Keep this and other chemicals out of reach of children. Do not re-use containers, triple rinse and dispose of in sanitary landfill.			
SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION			
RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 for complete regulations.			
VENTILATION	LOCAL EXHAUST: MECHANICAL (GENERAL):	Required Yes	SPECIAL: To maintain minimum TWA and STEL levels. OTHER: Engineering and work controls as required.
PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.		EYE PROTECTION: Goggles with side shields; safety eyebath nearby.	
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.			
WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.			
SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES			
BOILING POINT 213 ° F		SPECIFIC GRAVITY (WATER = 1) 1.020	
VAPOR PRESSURE (MM Hg) 17 mm Hg @ 20 ° C		pH 1.5	
VAPOR DENSITY (AIR = 1) < 1		EVAPORATION RATE (WATER = 1) < 1	
SOLUBILITY IN WATER Complete		% VOLATILE (BY WEIGHT) 93%	
APPEARANCE AND ODOR Dark brown liquid, iodine odor			
SECTION 9 - STABILITY AND REACTIVITY			
STABILITY STABLE:	UNSTABLE: X	CONDITIONS TO AVOID: Extreme temperatures	
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR:	MAY OCCUR: X	CONDITIONS TO AVOID: None	
SECTION 10 - DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD: Neutralize with soda ash and sodium thiosulfite or sodium sulfite. Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for corrosive materials. Consult your local			
The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.			