

Product Name:OXI-KING™ BRevision Date:October 1, 20°Supersedes:R0, 06/29/2015		Revision: 1
1. Identification		
Product Identifier:		OXI-KING™ Brom Pac
Other Means of Ide	entification:	1-bromo-3-chloro-5,5-dimethylhydantion; BCDMH; Halogenated hydantion
Recommended Us	e:	Industrial Water
Supplier:		King Technology, Inc. 530 11 <sup>th</sup> Ave S, Hopkins, MN USA Phone (952) 933-6118
EPA Registration N	lumber:	53735-10
Emergency Teleph	one:	Chemtrec (800) 424-9300
2. Hazards identific	cation	
GHS Classification	:	Eye Damage: Category 1 Skin Irritation: Category 1 Oxidizing Solids: Category 2 Specific Target Organ Toxicity (Single Exposure): Category 3 Acute Toxicity (Inhalation): Category 4 Acute Toxicity (Oral): Category 4 Acute Toxicity (Dermal): Category 4
GHS Label Elemen – Signal Word:	ts:	DANGER
– Pictograms:		
– Hazard Statemen	ts:	Causes severe skin burns and eye damage May intensify fire; oxidizer May cause respiratory irritation Harmful if inhaled Harmful if swallowed Harmful in contact with skin
– Precautionary St	atements:	Keep away from heat. Keep away from clothing or other combustible materials. Take any precaution to avoid mixing with combustibles. In case of fire: Use large amounts of water to extinguish. Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, and eye and face protection. Wash exposed areas thoroughly after handling. Do not eat, drink or smoke when using this product. In in eyes: Rinse cautiously with water for several minutes. Remove contact



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		lenses, if present and easy to do. Continue rinsing. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a poison center or doctor. Specific treatment (see First-aid Measures on this safety data sheet). Take off contaminated clothing and wash it before reuse. Store locked up in a well-ventilated place. Keep container tightly closed. Dispose of contents and container in accordance with local/regional/national/international regulations.
Unclassified Haza	irds:	None
Percentage of Ing Unknown Toxicity		Zero

3. Composition / Information on Ingredient	S		
Components CAS	Weight %	ACGIH-TLV Data	OSHA (PEL) Data
1-bromo-3-chloro-5,5-dimethylhydantion 16079-88-2	96	NE	NE

4. First-aid Measures	
Eye contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing the eye. Immediately call a poison control center or doctor for treatment advice.
Skin contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Immediately call a doctor for treatment advice.
Inhalation:	Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if breathing is difficult, give oxygen. Immediately call a poison control center or doctor for further treatment advice.
Ingestion:	Call poison control center or doctor immediately for treatment advice. Drink plenty of water in small gulps. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
Most Important Symptoms, Acute and Delayed:	Causes severe skin burns and eye damage. May cause respiratory irritation. Harmful if inhaled, swallowed, or in contact with skin.
Immediate Medical Attention Required:	If in eyes, immediately call a poison center or doctor. Otherwise, get medical attention if you feel unwell.



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5. Fire-fighting M	easures	
General hazard:		In large fires fueled by other materials, this product may smolder for prolonged periods emitting a dense black smoke. Any spilled material should be considered contaminated. Neutralize to a non-oxidizing material for safe disposal. Material which appears undamaged except for being damp on the outside should be opened and inspected immediately. If the material is damp, it should be neutralized to a non-oxidizing material for safe disposal.
Suitable Extingui	shing Media:	In case of fire or smoke, call the fire department. Do not attempt to extinguish the fire without a self-contained breathing apparatus (SCBA). Do not let the fire burn. Flood with copious amounts of water.
Unsuitable Exting Media:	guishing	DO NOT use ABC or other dry chemical extinguishers since there is the potential for a violent reaction.
Special Protectiv and Precautions fighters:		Fires fueled by other materials may release hydrogen bromide, bromine, hydrogen chloride or chlorine. Wear self-contained breathing apparatus. Ammonium phosphate (ABC) fire extinguishers should not be used.
Specific Hazards the Chemical:	Arising From	A dust explosion severity determination was performed using the Hartmann Dust Explosibility Bomb designed at the U.S. Bureau of Mines. The product was determined not to be ignitable.
6. Accidental Rel	ease Measures	
Personal Precaut	tions:	Using appropriate protective clothing and safety equipment, contain spilled material.
Methods for Clea	ning Up:	Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not use floor sweeping compounds to clean up spills. Do not close containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form. Do not transport wet or damp material. Keep product out of sewers, watersheds and water systems. Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment. Dispose of according to local, state and federal regulations.
7. Handling and S	Storage	
Handling:		STRONG OXIDIZING AGENT: Do not mix with other chemicals. Mix only with water. Never add water to product. Always add product to large quantities of water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water.



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Storage:		Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment. Do not store above 125 F (52 C).
8. Exposure Cont	rols / Personal I	Protection
Exposure Limits:		None assigned
Appropriate Engin Controls:	neering	General room ventilation plus local exhaust should be used to minimize exposure to dust/vapors.
Personal protecti – Respiratory pro	tection:	A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
<ul> <li>Hand protection</li> </ul>	1:	Wear rubber gloves when handling this product. Avoid contact with skin.
- Eye protection:		Wear goggles or safety glasses with side shields when handling this product.
– Skin and body p	protection:	Wear rubber gloves when handling this product. Avoid contact with skin.
Hygiene measure	s:	Remove and wash contaminated clothing before reuse.
Other Precautions	5:	Facilities using or storing this material should be equipped with an eyewash and safety shower.

## 9. Physical and Chemical Properties

Appearance: Odor: Odor threshold: Melting point / range: Boiling point / range: Flash point: Evaporation rate: Flammability: Vapor pressure: Vapor density: Bulk density: Solubility in water: Specific gravity: pH:	White granules Faint halogen odor Not available Not available Not available Not available Not available Not available Not available S4 lb/ft 3 (granular form approx, 0.9 g/mL, test method ASTM B527) 0.15g/100g water Not available 4.5 (0.1% solution in DI water)
-	0 0
Decomposition temperature: Viscosity:	Not available Not available



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10. Stability and Reactivity	
Reactivity:	Not reactive under normal conditions.
Stability:	This product is stable under normal conditions
Incompatible materials:	Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidizable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; other swimming pool/spa chemicals in their concentrated form; alkalis. Avoid contact with all other chemicals.
Conditions to avoid:	High temperature. Poor ventilation. Contamination. Moisture / high humidity.
Hazardous decomposition products:	Hydrogen bromide, bromine, hydrogen chloride, chlorine.
Possibility of hazardous reactions:	Hazardous polymerization will not occur under normal conditions.
11. Toxicological Information	
Acute toxicity: – Rat oral LD50: – Rabbit dermal LD50: – Eye irritation (rabbit): Carcinogenicity:	578 mg/kg The dermal LD50 is greater than 2.0 g/kg. The primary skin irritation index is 6.1 and the product is considered corrosive to skin Toxicological studies indicate this product to be corrosive to eyes. This product is not listed as a carcinogen by IARC. This product is not listed as a carcinogen by NTP. This product is not listed as a carcinogen by OSHA
12. Ecological Information	
Ecotoxicological Information:	This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or their waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
13. Disposal Considerations	
Waste disposal:	Use or reuse if possible. Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, Contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by storage or disposal or cleaning of



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	equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire. The user of the material has the responsibility to dispose of unused material, residues, and containers in compliance with all relevant local, state, and federal laws and regulations regarding treatment, storage, and disposal of hazardous waste.
Empty container:	Do not reuse container. Rinse thoroughly before discarding in trash.
14. Transportation Informa	tion
DOT: – Proper shipping name: – Primary hazard class: – UN/NA Number: – Packing group	Oxidizing Solid, N.O.S. (Bromo-chloro-dimethylhydantoin) 5.1 1479 II
15. Regulatory Information	
EPA FIFRA Information:	This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:
	DANGER Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or safety glasses and rubber gloves when handling product. Irritating to nose and throat. Avoid breathing dust and fumes. Remove and wash contaminated clothing before reuse.
USA:	
<ul> <li>Sara (311, 312) hazard cla</li> <li>CERCLA:</li> <li>TSCA Regulatory:</li> <li>TSCA Status:</li> <li>OSHA Hazard Comm. Ru</li> <li>Clean Water Act:</li> <li>FIFRA:</li> <li>SDWA:</li> <li>Clean Air Act:</li> </ul>	This product or its components are not listed. This product or its components are not subject to export notification. This product or its components are listed on the TSCA Inventory.
State Regulations:	Proposition 65 statement: This product or its components are not listed on any Proposition 65 lists of carcinogens or reproductive toxicants.



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## 16. Other information

Date of preparation: October 1, 2016

## Details of change from previous version:

Updated Corporate Logo

Factors pertaining to certain conditions of storage, handling, and/or use of this product may involve other or additional safety considerations. This information is given without a warranty or guarantee. No suggestions for use are intended or shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.

Prepared by:

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End of safety data sheet