

MATERIAL SAFETY DATA SHEET



B.I.O. BLAST 650G

HMIS		NFPA	Personal protective equipment		
Health	3	3			
Fire Hazard	0	0			
Reactivity	0	0			

Version Number: 4

Preparation date: 2005-03-08

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: B.I.O. BLAST 650G

MSDS #: 46871500269

Product code: 46871500269

Recommended use: Biocide.

Manufacturer, importer, supplier:

US Headquarters
JohnsonDiversey, Inc.
8310 16th St.
Sturtevant, Wisconsin 53177-0902
Phone: 1-888-352-2249
MSDS Internet Address:
www.johnsondiversey.com

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER. HIGHLY CORROSIVE . CAUSES EYE AND SKIN BURNS . MAY BE FATAL IF SWALLOWED . OXIDIZER . CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE .

Principle routes of exposure:

Eyes. Skin. Inhalation.

Skin contact:

Severe skin irritation.

Eye contact:

Corrosive. Causes irreversible eye damage .

Inhalation:

May be irritating to nose, throat, and respiratory tract.

Ingestion:

May be irritating to mouth, throat and stomach. May be fatal if swallowed .

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient	CAS #	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
1-bromo-3-chloro-5,5-dimethylhydantoin	16079-88-2	60 - 70%	Not available	Not available	Not available
1,3-dichloro-5-ethyl-5-methylhydantoin	89415-87-2	10 - 20%	Not available	Not available	Not available
Dichloro dimethyl hydantoin	118-52-5	100	542 mg/kg (rat)	20 g/kg (rabbit)	Not available

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 eyes. Call medical attendant, medical doctor, or poison control center .

Skin contact:

Take off contaminated clothing . Rinse skin immediately with plenty of water for 15-20 minutes . Call medical attendant, medical doctor, or poison control center . Remove and wash contaminated clothing and footwear before re-use.

Inhalation:

If breathing is affected, remove to fresh air. If person is not breathing, call 911 or an ambulance and then give artificial respiration, preferably by mouth to mouth, if possible. Call medical attendant, medical doctor, or poison control center .

Ingestion:	Call medical attendant, doctor, or poison control center immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.
Notes to physician:	Probable mucosal damage may contraindicate the use of gastric lavage.
Aggravated Medical Conditions:	Persons with pre-existing skin disorders may be more susceptible to irritating effects

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Flood with water. Dry chemical, water spray, foam.
Specific hazards:	To minimize the progressive generation of noxious gases, flood burning material with large quantities of water. Must wear NIOSH/MSA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray. Oxidizer. Decomposition releases oxygen, which may intensify fire. In large fires fueled by other materials, this product may smolder for prolonged periods emitting a dense, black smoke. Fires fueled by other materials may release hydrogen bromide, bromine, hydrogen chloride, or chlorine.
Unusual hazards:	Material is a strong oxidizer. May ignite combustible materials and may produce noxious gases. Products of combustion are toxic. This product is classified as an ST-1 dust explosive hazard (ASTM E-1226-88). Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. Use adequate explosion-proof ventilation systems to control dust at the source. Avoid generating product dust near sources of ignition, including static electricity. Use safety measures in accordance with the 1988 edition of NFPA 654 (Standard for the Prevention of Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastic Industries).
Specific methods:	No special methods required
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Extinguishing media which must not be used for safety reasons:	"Alcohol" foam. carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Put on appropriate personal protective equipment (see Section 8.). Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. DO NOT use combustible materials such as sawdust.
Environmental precautions and clean-up methods:	DANGER! Oxidizing material. Possible dust explosion hazard. Do not get in eyes or on skin. Repeated or prolonged contact with skin can result in sensitization and/or irreversible tissue damage. Do not breathe dust. For spills, wear appropriate protective equipment and respiratory protection. Where dust may be generated, wear full-face respiratory protection and remove all sources of ignition. For large spills, or when spilled material comes in contact with water, self-contained breathing apparatus is preferred. Carefully sweep up spilled material (avoid generating dust) and place in an appropriate container for disposal. Do not contaminate with oxidizable materials. Neutralize any residue with dilute, alkaline sodium bisulfite or thiosulfite solution; absorb with sand or vermiculite and place in a compatible container for disposal. If spilled material is wet, neutralize and proceed as stated above. Material is toxic to fish. Do not discharge into lakes, streams, ponds, or public water unless in accordance with an NPDES permit.

7. HANDLING AND STORAGE

Handling:	Do not breathe dust. Avoid generating dust. Product is a strong oxidizer and is corrosive. Do not allow product to come in contact with oxidizable material. Please also see "Unusual Fire and Explosion Hazards" in section V of this MSDS for information on the dust explosivity of this material. Wear goggles, protective clothing, and gloves. Mix only with water. Do not mix with any other product or chemical.
Storage:	Store in a cool, dry place, isolated from all organic material. Avoid heat and direct sunlight. Keep container closed. Do not contaminate food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:	In processes where dusts or airborne particulates may be generated, proper ventilation must be provided in accordance with good ventilation practices. Respiratory protection is not required if good ventilation is maintained.
Personal Protective Equipment	
Eye protection:	Chemical splash goggles.
Hand protection:	Rubber gloves.
Skin and body protection:	If major exposure is possible, wear suitable protective clothing and footwear.
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing and footwear before re-use. Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), to prevent skin contact.

Ingredient	CAS #	ACGIH	OSHA	Mexico
Dichloro dimethyl hydantoin	118-52-5	0.4 mg/m ³ (STEL) 0.2 mg/m ³ (TWA)	0.2 mg/m ³ (TWA) 0.4 mg/m ³ (STEL)	0.2 mg/m ³ (TWA) 0.4 mg/m ³ (STEL)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Appearance:	Powder
Color:	White	Boiling point/range:	Not determined
Odor:	No information available	Melting point/range:	Not determined
Specific gravity:	No information available	pH:	No information available
Dilution pH:	3.2 - 3.8 (1%)	Density:	No information available
Bulk density:	No information available	Decomposition temperature:	Not determined
Vapor density:	No information available	Autoignition temperature:	No information available
Evaporation rate:	No information available	Solubility:	Dispersible
Solubility in other solvents:	No information available	VOC:	No information available
Viscosity:	Variable	Flash point:	>200 (°F) >100 (°C)
Partition coefficient (n-octanol/water):	No information available		

10. STABILITY AND REACTIVITY

Stability:	The product is stable
Polymerization:	Hazardous polymerisation does not occur
Hazardous decomposition products:	Thermal decomposition may produce toxic vapors/fumes of chlorine, bromine, organic materials, and oxides of carbon and nitrogen .
Materials to avoid:	Strong acids. Strong bases. Organic materials.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Oral, LD50 estimated to be > 2000 mg/kg.
Component Information:	See Section 3
Chronic toxicity:	Repeated skin exposure can cause sensitization .
Specific effects	
Carcinogenic effects:	None known
Mutagenic effects:	None known
Reproductive toxicity:	None known
Target organ effects:	None known

12. ECOLOGICAL INFORMATION

Environmental Information:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Material is toxic to fish. Do not discharge into lakes, streams, ponds, or public water unless in accordance with an NPDES permit . Dispose of in compliance with all Federal, state, provincial, and local laws and regulations. Incineration is the preferred method. Relatively small quantities of product may be neutralized as stated above, and if in accordance with local laws and the operators of the local sewage treatment plant, the neutralized material may be discharged into the sewer system .
RCRA Hazard Class: D001

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDL).

U.S. Regulations

EPA Reg. No. : 6836-237-70627

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
1-bromo-3-chloro-5,5-dimethylhydantoin	16079-88-2	-	-	-	-	-	-

Dichloro dimethyl hydantoin	118-52-5	Listed	-	Listed	Listed	Listed	-
1,3-dichloro-5-ethyl-5-methylhydantoin	89415-87-2	-	-	-	-	-	-

CERCLA / SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
1-bromo-3-chloro-5,5-dimethylhydantoin	16079-88-2	60 - 70%	100 lb	N/A	None

CAA HAP/CAA ODS/CWA Priority Pollutants: None

Immediate: Yes

Fire: Yes

Canada

WHMIS hazard class: Non-controlled.

16. OTHER INFORMATION

Reason for revision: Not applicable

Prepared by: NAPRAC

Additional advice: None

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