

## **I - PRODUCT IDENTIFICATION**

Product: BromPlus™ Nuggets  
Chemical Family: Brominated imidazolidine dione  
Formula: Mixture – not applicable  
CAS Number: 77-48-5  
Synonyms: AlBrom 100PC Disinfectant

## **COMPANY IDENTIFICATION**

AllChem Performance Products  
6010 NW First Place  
Gainesville, FL 32607  
Tel:352-378-9696

## **II – COMPOSITION, INFORMATION ON INGREDIENTS**

	Exposure Limits	
<u>Chemical or Common Name</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>

1,3-Dibromo-5, 5-Dimethylhydantoin	Not Designated by OSHA/ACGIH	
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## **III – HAZARDS IDENTIFICATION**

Primary Route(s) of Entry:

Ingestion:	(X)
Inhalation:	(X)
Skin Contact:	(X)
Eye Contact:	(X)

Primary Health Hazards (acute & chronic):

Eye:	Causes burns, risk of serious damage to the eyes.
Ingestion:	Expected to be harmful
Inhalation:	Expected to be harmful
Skin:	Causes burns to the skin, expected to be harmful.

Carcinogenity Listings:

OSHA:
NTP:
IARC:

Signs & Symptoms of Exposure:

Medical Conditions Aggravated By Exposure:

#### **IV – FIRST AID MEASURES**

Ingestion:	Do not induce vomiting, give large quantities of water. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen and get medical attention.
Skin Contact:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, wash clothing before reuse.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, get medical attention.

#### **V – FIRE FIGHTING MEASURES**

Flash Point (method):	Not applicable – solid
Flammable Limits:	Not applicable.
LEL:	
UEL:	
Extinguishing media:	Dry chemical, water spray(fog), foam or carbon dioxide.
Special Fire-fighting Procedures:	Toxic fumes may be present, use of respirator suggested.
Unusual Fire and Explosion Hazards:	None known.
Hazardous Thermal Decomposition Products:	Include oxides of carbon and also includes bromine.

#### **VI – ACCIDENTAL RELEASE MEASURES**

Steps To Be Taken In Case Material Is Spilled Or Released: Sweep or shovel spills into appropriate container for disposal.

#### **VII – HANDLING AND STORAGE**

Precautions to Be Taken in Handling and Storage: Store in well-ventilated, cool, dry area. Store in containers made of HDPE, LDPE, or PP. Close container when not in use.

#### **VIII – EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Exposure limits:	Not established by OSHA/ACGIH
Respiratory Protection:	NIOSH Approved dust / mist respirator under dusty or irritating conditions.
Eye Protection:	Chemical goggles or safety glasses.
Protective Gloves:	Resistant to chemical penetration.
Ventilation:	Local Exhaust: At source of dust.

Mechanical Exhaust: Recommended.

Other Protective Clothing or Equipment: If skin contact or contamination of clothing is likely, protective clothing should be worn.

Work/ Hygienic Practices:

## **IX – PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: Not Determined.

Molecular weight:286

Vapor Pressure (mm Hg):

Vapor Density (Air=1):

Solubility in Water:

Appearance and odor: White/off-white solid, halogen odor.

Specific Gravity (H<sub>2</sub>O=1):

Percent volatile by volume:

Melting Point: Decomposes on melting.(Melting/decomposition temperature is >190°C)

Evaporation Rate:

## **X – STABILITY AND REACTIVITY**

Stability:       Unstable                    Stable

Conditions to Avoid: none established

Incompatibility:

Hazardous Decomposition or By-Products:

Hazardous Polymerization:    May Occur    Will Not Occur

Conditions to Avoid:

Materials to Avoid: This product is a strong oxidizing and brominating agent. Avoid contact with aldehydes, strong reducing agents, acids, and ammonia containing products. Avoid contact with metals such as steel, aluminum, iron and copper.

## **XI- TOXICOLOGICAL INFORMATION**

Toxicity Data: Acute Oral D LD50, rat (albino Sprague-Dawley): 448mg/kg of body weight; Dermal sensitization; guinea pig(albino Hartley): Not a contact sensitizer; skin irritation, rabbit (albino New Zealand): product is considered corrosive to the skin.

Aquatic Toxicity Data: Organism: Rainbow Trout (Oncorhynchus mykiss)- Toxicity results: 48 hour EC50 value was 0.4mg/L. Organism: Caldoceran(Daphnia Magna)-Toxicity results: 48 hr EC50 value was 0.7mg/L.

## **XII – ECOLOGICAL INFORMATION/ ENVIRONMENTAL HAZARDS (PR Notice 93-10)**

Aquatic Toxicity:

This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this

product into lakes, streams, ponds, estuaries, oceans, or other 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.

Avian Toxicity:

### **XIII – DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Under the CERCLA/RCRA regulations currently in effect, this material is not regulated as a hazardous waste or material. However, this product has not been tested for the toxicity characteristic via the Toxicity Characteristic Leaching Procedure. Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state & federal regulations.

### **XIV - TRANSPORTATION DATA**

#### U.S. Department of Transportation - 49 CFR

Proper Shipping Name: Oxidizing Solid, N.O.S. (1, 3-Dibromo-5, 5-dimethylhydantoin)

Hazard Class/Division Number: 5.1

ID Number: UN1479

Packing Group: II

Label Required:

Placard Required:

Marine Pollutant:

#### International Maritime Organization - IMDG

Proper Shipping Name: Solid, N.O.S. (1, 3-Dibromo-5, 5-dimethylhydantoin)

Hazard Class/Division Number: 5.1

ID Number: UN1479

Packing Group: II

Label Required:

Placard Required:

Marine Pollutant:

## **XV - REGULATORY INFORMATION**

(X) SARA: Section 311/312 - Hazard categories for SARA reporting are indicated below:

Health	Immediate (Acute)	Yes
Health	Delayed (Chronic)	NO
Physical	Fire	NO
Physical	Sudden Release of Pressure	NO
Physical	Reactive Nuisance Mist/Dust only	NO

(X) TSCA: This material is in compliance with the Toxic Substances Control Act (15 USC 2601 – 2629).

## **XVI - ADDITIONAL INFORMATION**

**ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL.**

Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section XV of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

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