

**MATERIAL SAFETY DATA SHEET**

MSDS

**Bellacide® 325**

**Date Issued:** 11/05/2002  
**MSDS Ref.:** No.:00110301  
**Date-Revised:** 10/10/2007  
**Revision No:** 5

**1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Bellacide® 325  
**GENERAL USE:** Algicide  
**EPA REGISTRATION NUMBER:** 83451-9

**MANUFACTURED FOR:**

BWA Water Additives US LLC  
 1979 Lakeside Parkway, Suite 925  
 Tucker, GA 30084

**GENERAL INFORMATION:** (800) 600-4523

**SUPPLIER**

See Manufacturer for Supplier Information

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**EMERGENCY PHONE:** (877) 800-5553 (24-Hour Medical - U.S.A.)  
**EMERGENCY PHONE:** (303) 623-5716 (24-Hour Medical - All others)

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt. %</u>
2-(Tert-Butylamino)-4-Chloro-6-(Ethylamino)-S-Triazine	5915-41-3	4
Water	7732-18-5	

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** Product is stable under normal conditions of use. Under fire conditions toxic sulfur oxides and chlorine compounds may be released.

**POTENTIAL HEALTH EFFECTS:** Product has low oral and dermal toxicity and is not irritating to the eyes and skin.

**4. FIRST AID MEASURES**

**EYES:** Flush with plenty of water. Get medical attention if irritation occurs and persists.

**SKIN:** Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.

**INGESTION:** Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

**INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

**5. FIRE FIGHTING MEASURES**

**FLASH POINT AND METHOD:** Not applicable

**FLAMMABLE LIMITS:** Not applicable

**AUTOIGNITION TEMPERATURE:** Not available

**EXTINGUISHING MEDIA:** Carbon dioxide, foam, dry chemical, water spray

**FIRE / EXPLOSION HAZARDS:** Decomposition and combustion products may be toxic.

**FIRE FIGHTING PROCEDURES:** Use self-contained breathing apparatus.

**SENSITIVITY TO STATIC DISCHARGE:** None

**SENSITIVITY TO IMPACT:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen and sulfur oxides, chlorine compounds and other toxic gases.

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## 6. ACCIDENTAL RELEASE MEASURES

**RELEASE NOTES:** Isolate area. Wear prescribed protective clothing and equipment. Dike to confine spill. Absorb with an absorbant. Shovel waste into an approved container and dispose of following the method outlined under the "Disposal Considerations" section. To decontaminate spill area, tools and equipment, wash with water and add to drums of waste already collected.

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## 7. HANDLING AND STORAGE

**HANDLING:** Avoid direct contact when handling this product..

**STORAGE:** Keep container closed when not in use. Protect from heat, flame and physical damage.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Under normal conditions of use, exposure should not be a significant concern. Use with general room ventilation or local exhaust when airborne contamination is expected. Under unusual or emergency conditions, the personal protective equipment indicated below is recommended.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Use chemical-type goggles or face shield.

**RESPIRATORY:** Use MSHA/NIOSH approved organic respiratory protection when airborne vapor is expected.

**PROTECTIVE CLOTHING:** Use impervious gloves. Wear impervious apron and gauntlets when splashing is expected during liquid transfers. Wear normal workshoes except in conditions of spills where rubber overshoes or boots would be required.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Slight chalky

**APPEARANCE:** Creamy off-white liquid suspension

**pH:** 7 to 9

**PERCENT VOLATILE:** Not available

**VAPOR PRESSURE:** Not available

**VAPOR DENSITY:** (Air = 1): Not applicable

**BOILING POINT:** Not available

**FREEZING POINT:** Not available

**MELTING POINT:** Not available

**SOLUBILITY IN WATER:** No data available

**EVAPORATION RATE:** (Butyl Acetate = 1): Not available

**DENSITY:** Not available

**SPECIFIC GRAVITY:** (H<sub>2</sub>O=1): 1.0

**COEFF. OIL/WATER:** Not available

**ODOR THRESHOLD:** Not available

**OXIDIZING PROPERTIES:** Not applicable

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**10. STABILITY AND REACTIVITY**

**CONDITIONS TO AVOID:** Avoid storage at extreme temperatures.

**STABILITY:** Stable

**POLYMERIZATION:** Will not occur

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen and sulfur oxides, chlorine compounds and other toxic gases.

**INCOMPATIBLE MATERIALS:** Strong acids and alkalies

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**11. TOXICOLOGICAL INFORMATION**

**EYE EFFECTS:** Non-irritant (rabbit)

**SKIN EFFECTS:** Non-irritant (rabbit) Non-sensitizer (guinea pig)

**DERMAL LD50:** >4400 mg/kg (rabbit)

**ORAL LD50:** 1350 mg/kg (rat)

**INHALATION LC50:** No data available for the product.

**ACUTE EFFECTS FROM OVEREXPOSURE:** Product has low oral and dermal toxicity and is not irritating to the eyes or skin.

**CHRONIC EFFECTS FROM OVEREXPOSURE:** Animal studies indicated effects on the liver, testes, thymus and stomach when product was applied dermally. Long-term animal studies with the active ingredient indicated toxic effects in lymph nodes, thymus and spleen following oral and dermal exposure; a small increased incidence of mammary tumors was noted in rats.

**CARCINOGENICITY:**

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

**OTHER:** ACGIH: Not listed

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**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** No data available for the product. Information below is for terbuthylazine, the major ingredient.

Fish Toxicity –

Bluegill: 96 hour LC50 = 7.6 ppm

Rainbow trout: 96 hour LC50 = 3.6 ppm

Invertebrate Toxicity -

Daphnia magna: 48 hour EC50 = 39 ppm

Avian Toxicity -

Mallard duck: oral LD50 > 2510 mg/kg

Bobwhite quail: 8 day dietary LC50 > 5620 ppm

Mallard duck: 8 day dietary LC50 > 5620 ppm

**CHEMICAL FATE INFORMATION:** Sewage Bacterial Toxicity -

Inhibitory concentration on respiration of aerobic waste water - IC20, IC50, IC80 > 100 ppm

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**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Open dumping or burning of this material is prohibited. An acceptable method of disposal is to burn in an incinerator in accordance with all local, state and federal environmental laws, rules, standards and regulations. The appropriate regulatory agencies should be contacted prior to disposal.

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If the product was supplied in a single use container, care should be taken to dispose of the container in a responsible manner and in accordance with applicable regulations. Label precautions should be followed for any residual material in the container. Whenever possible, our company encourages recycling of containers.

#### 14. TRANSPORT INFORMATION

##### U.S. DEPARTMENT OF TRANSPORTATION (DOT)

**PROPER SHIPPING NAME:** Not regulated

**PRIMARY HAZARD CLASS/DIVISION:** Not applicable

**UN/NA NUMBER:** None

**PLACARDS:** Not required

**LABEL:** Not required

##### OTHER SHIPPING INFORMATION:

DOT Marking: Not required

Hazardous Substance/RQ: Not applicable

49 STCC Number: Not available

**SPECIAL SHIPPING NOTES: IMDG:** Not regulated

**IATA:** Not regulated

Keep container tightly closed. Protect against physical damage.

#### 15. REGULATORY INFORMATION

##### UNITED STATES

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):** Not listed

**SECTION 311 HAZARD CATEGORY (40 CFR 370):** Delayed (chronic) health hazard

**SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):** 10,000 lbs.

**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):** Not listed

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)**

**CERCLA REGULATORY (40 CFR 302.4):** Not listed

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS (40 CFR 710):** Listed (components)

##### STATE REGULATIONS

**PROPOSITION 65:** This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

##### CANADA

**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Product Identification No.:** Not available

**Hazard Classification:** Not evaluated for Canada

**Disclosure List:** Not evaluated for Canada

**Domestic Substance List:** Not evaluated for Canada

#### 16. OTHER INFORMATION

**REVISION SUMMARY** New MSDS: This MSDS is a replacement for the November 5, 2002 BioLab Inc. MSDS for Bellacide 325 (MSDS Ref.No.: 5915-41-3-2 Version 4). Any changes in information is as follows: In MSDS Identifying Header - BWA Corporate Logo, MSDS Ref. No. In section[1] Product and Company Information - Manufactured For: BWA Address, Customer Service Number, EPA Registration Number

##### HMIS RATING

<b>HEALTH:</b>	<b>1</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	<b>J</b>

##### NFPA RATING

<b>HEALTH:</b>	<b>1</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>REACTIVITY:</b>	<b>0</b>
<b>SPECIAL:</b>	<b>NONE</b>

Key

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal

**HMIS RATINGS NOTES:** Health = 1 (chronic effects) Protection = J (Safety goggles, gloves, apron & combination dust & vapor respirator)

**COMMENTS:** The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard and Canada's Workplace Hazardous Information System (WHMIS). National Fire Protection Association (NFPA) Hazardous Materials Identification System (HMIS)

**MANUFACTURER DISCLAIMER: IMPORTANT:** The 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, provincial, state, municipal, 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.