

MATERIAL SAFETY DATA SHEET

MSDS

Belclene® 635

Date Issued: 01/24/2006
MSDS Ref.: 00110546
Date-Revised: 10/12/2007
Revision No: 1

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Belclene® 635
GENERAL USE: Industrial water treatment.

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>
Diethylenetriamine pentamethylene phosphonic acid, sodium salt	22042-96-2	45 - 49
Sodium chloride	7647-14-5	< 8
Formaldehyde	50-00-0	< 0.001
Water	7732-18-5	45 - 50

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

PHYSICAL APPEARANCE: Odorless amber liquid.

IMMEDIATE CONCERNS: Caution: Liquid is irritating to eyes. Mist may be irritating to skin, nose, throat, and lungs.
 Corrosive to mild steel and aluminum.

POTENTIAL HEALTH EFFECTS

EYES: Liquid is irritating to eyes. Mist may be irritating to skin, nose, throat, and lungs. May be harmful if swallowed.
 Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.

ROUTES OF ENTRY: Eye Contact and Skin Contact.

4. FIRST AID MEASURES

EYES: Immediately flush with water for at least 15 minutes, lifting upper and lower eyelids intermittently. See a medical doctor or ophthalmologist immediately.

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

INGESTION: If conscious, rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Get medical attention immediately.

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

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Non-flammable aqueous solution.

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, or foam.

FIRE FIGHTING PROCEDURES: Wear NIOSH approved self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides and phosphines.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Prevent product from flowing into drains or water courses. Utilizing appropriate protective clothing and/or equipment, absorb spilled product using sand or other absorbent material. Dispose of as a solid waste in accordance with local, state, and federal regulations. Neutralize washings with soda ash or lime. Flush spill area with water..

7. HANDLING AND STORAGE

HANDLING: Avoid the generation of mists in occupied areas.

STORAGE: Store in a cool, dry location. Keep container tightly closed when not in use and protect from physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS

	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
	ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Formaldehyde	TWA	0.75 ppm	0.3 ppm	[1]		
	STEL	2 ppm				

OSHA TABLE COMMENTS:

- 1. Ceiling

ENGINEERING CONTROLS: General room ventilation plus local exhaust should be used to minimize exposure to mists or vapors.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Safety glasses or goggles.

SKIN: In applications where contact is likely, wear rubber gloves and apron.

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

PROTECTIVE CLOTHING: PVC gloves, overalls or apron.

WORK HYGIENIC PRACTICES: Wash hands thoroughly with soap and water after handling product. Remove and wash contaminated clothing before reuse. Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Odorless
APPEARANCE: Amber liquid
pH: 2 to 3 (10 g/l solution at 25C)
VAPOR PRESSURE: Not Established
VAPOR DENSITY: Not Established
BOILING POINT: Not Established
FREEZING POINT: -20°C
SOLUBILITY IN WATER: Completely Miscible
SPECIFIC GRAVITY: 1.41 to 1.43

10. STABILITY AND REACTIVITY

STABILITY: This product is stable under normal handling or storage conditions.

POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

CONDITIONS TO AVOID: Avoid storage at extreme temperatures. Incompatible materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides, and phosphines.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, reducing agents, alkali, aluminum and mild steel.

11. TOXICOLOGICAL INFORMATION**ACUTE**

DERMAL LD50: > 5000 mg/kg of body weight in rabbits.
Toxicological information given is based on data for a similar product.

ORAL LD50: > 5000 mg/kg of body weight in rats
Toxicological information given is for a similar product.

EYE EFFECTS: Mild irritant (rabbit)

SKIN EFFECTS: No more than slightly irritating to skin (rabbit).

CARCINOGENICITY:

This product contains formaldehyde, which is listed as a Group 2A suspect carcinogen.
This product contains formaldehyde, which is listed by NTP as a suspect carcinogen.
This product contains formaldehyde, which is listed by OSHA as a potential carcinogen.

MUTAGENICITY: No evidence of induction of DNA damage by similar product. No evidence of mutagenicity in similar product.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Invertebrates: Daphnia magna (water flea): 48 hour EC50 = 242 mg/l Fish
Toxicity: Rainbow trout: 96 hour LC50 > 180 mg/l Algae: 96 hour EC50 = 2 mg/l Algal growth inhibition is due to ability of this product to complex materials and not due to toxicity per se. Not expected to bioaccumulate..

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of unused, uncontaminated product in accordance with all federal, state, and local regulations.
Spilled product absorbed onto sand or earth should be disposed of as solid waste in accordance with all federal, state, and local regulations.

EMPTY CONTAINER: Do not reuse empty container. Emptied containers retain vapor and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned, or destroyed.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive liquid, acidic, organic, N.O.S. (contains diethylenetriamine pentamethylene phosphonic acid, sodium salt)

PRIMARY HAZARD CLASS/DIVISION: 8 (Corrosive)

UN/NA NUMBER: 3265

PACKING GROUP: III

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Corrosive liquid, acidic, organic, N.O.S. (contains diethylenetriamine pentamethylene phosphonic acid, sodium salt)

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15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES CHRONIC: NO

313 REPORTABLE INGREDIENTS: This product or its components are not listed.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: This product or its components are not listed.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: This product or its components are not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product or its components are not subject to export notification.

TSCA STATUS: This product or its components are listed on the TSCA Inventory.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This product is not a registered pesticide.

CANADA

WHMIS CLASS: E - Corrosive Material

DOMESTIC SUBSTANCE LIST (INVENTORY): All components are listed on the DSL.

COMMENTS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

PREPARED BY: Regulatory Affairs Department

REVISION SUMMARY: Revision #: 1 This MSDS is a replacement for the March 3, 2006 BioLab Inc. MSDS for Bellacide 635 (MSDS Ref.No.: BWA79280). 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

HEALTH:	1
FLAMMABILITY:	0
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	-

NFPA RATING

HEALTH:	1
FLAMMABILITY:	0
REACTIVITY:	1
SPECIAL:	G

Key

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

COMMENTS: The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard, National Fire Protection Association (NFPA), and 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.