

MATERIAL SAFETY DATA SHEET

MSDS

Belclene® 627

Date Issued: 03/05/2004
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Revision No: 2

1. PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME:** Belclene® 627**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>
Hexamethylenediamine tetra(methylenephosphonic acid), potassium salt	38820-59-6	21 - 25
Potassium chloride	7447-40-7	4 - 6
Phosphonic acid, dipotassium salt	13492-26-7	<4

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW****PHYSICAL APPEARANCE:** Clear, colorless to light yellow liquid.**IMMEDIATE CONCERNS:** CAUTION: Mist may be irritating to eyes, skin, nose throat and lungs.**POTENTIAL HEALTH EFFECTS****EYES:** May cause eye irritation. Avoid contact with eyes.**SKIN:** May cause skin irritation. Avoid contact with skin.**INGESTION:** Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.**INHALATION:** Mists may cause respiratory tract irritation. Avoid breathing vapor or mists.**CHRONIC EFFECTS:** There are no known chronic hazards.**ROUTES OF ENTRY:** Skin Contact, Inhalation, Ingestion, Eye Contact.

4. FIRST AID MEASURES

EYES: If in eyes: Hold eye(s) 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 eye. If irritation develops and persists, seek medical attention.

SKIN: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If irritation develops and persists, seek medical attention.

INGESTION: If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip 1-2 glasses of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Flammable

GENERAL HAZARD: Product decomposes in a fire giving off irritant fumes.

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

HAZARDOUS COMBUSTION PRODUCTS: Product is not flammable or combustible.

EXPLOSION HAZARDS: This product does not pose an immediate explosion hazard.

FIRE FIGHTING EQUIPMENT: Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of phosphorous, carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate clothing and safety equipment, contain spill material. Keep spilled material out of drains or water courses. Cover the liquid with an inert absorbent. Using clean, dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry plastic containers for disposal. Dispose of according to municipal/local, provincial/state and federal regulations. Flush spill area with water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin or clothing.

HANDLING: Use safe chemical handling procedures for the hazards presented by this material.

STORAGE: Keep this product in original container. Store in a cool, dry place when not in use. Keep away from open flame. Keep out of reach of children. Do not reuse empty container. Rinse thoroughly with water before discarding. Product is freeze sensitive.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Wear safety glasses with side shields where there is potential for eye contact.

SKIN: Gloves are recommended for prolonged contact or for persons with sensitive skin.

RESPIRATORY: Respirator protection is not normally required under routine use conditions. If product is used in an area with poor ventilation and mist or vapor is expected, a respirator that meets OSHA/ANSI standards may be required.

WORK HYGIENIC PRACTICES: In accordance with good industrial hygiene practices, wash hands thoroughly with soap and water after handling this product.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Clear

COLOR: Colorless to light yellow

pH: 6 to 8 (10 g/l @ 25°C)

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Established

BOILING POINT: 105°C to 108°C

FREEZING POINT: -15°C

SOLUBILITY IN WATER: Miscible in Water

SPECIFIC GRAVITY: 1.274 to 1.3 g/ml at 20°C

COEFF. OIL/WATER: Not Established

10. STABILITY AND REACTIVITY

STABILITY: This product is stable under normal 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 may produce oxides of phosphorous, carbon and nitrogen.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, and strong acids.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Practically non-irritating to eyes (rabbit), 24 hr. Toxicological information is for a similar product.

DERMAL LD50: >7940 mg/kg of body weight in rabbits. Practically nontoxic after skin application in animal studies. Practically non-irritating to skin (rabbit) 24 hr. Toxicological information given is for a similar product.

ORAL LD50: >12800 mg/kg of body weight in rats Practically nontoxic following oral administration. Toxicological information given is for a similar product.

INHALATION LC50: No data available for this product. This product may be irritating eye and skin.

EYE EFFECTS: This product may be irritating to eyes.

SKIN EFFECTS: This product may be irritating to skin.

SENSITIZATION: This product is not a skin sensitizer.

CHRONIC / SUBCHRONIC: No significant adverse health effects expected.

CARCINOGENICITY:

This product contains formaldehyde at less than 0.001%, which is listed as a Group 2A suspect carcinogen.

This product contains formaldehyde at less than 0.001%, which is listed by NTP as a suspect carcinogen.

This product contains formaldehyde at less than 0.001%, which is listed by OSHA as a potential carcinogen.

MUTAGENICITY: No genetic effects were noted in standard bacterial tests.

SYNERGISTIC MATERIALS: None known.

REPRODUCTIVE EFFECTS: This product is not expected to have any effect on fertility or reproduction.

TERATOGENIC EFFECTS: This product is not expected to be teratogenic.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Fish 96 hr LC50 > 2,000 mg/l

Invertebrates 48 hr LC50 > 500 mg/l

Algae: 96 hr EC50 = 28 mg/l; Algal growth inhibition is due to ability of this product to complex materials not to toxicity per se.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

PRODUCT DISPOSAL: Dispose of unused, uncontaminated product in accordance with all municipal/local, provincial/state or federal regulations.

EMPTY CONTAINER: Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated as a DOT Hazardous Material

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Not Regulated as a TDG Hazardous Material

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.

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 US EPA registered pesticide.

CANADA

WHMIS CLASS: D2B - Eye, skin and respiratory irritant.

DOMESTIC SUBSTANCE LIST (INVENTORY): Product active ingredients are listed on DSL.

CALIFORNIA PROPOSITION 65: This product or its components are not listed on any Proposition 65 lists of carcinogens or reproductive toxicants.

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 #: 5 This MSDS is a replacement for the September 14, 2004 BioLab Inc. MSDS for Bellacide 627 (MSDS Ref.No.: BWA79270). 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:	B

NFPA RATING

HEALTH:	1
FLAMMABILITY:	0
REACTIVITY:	1
SPECIAL:	NONE

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), Hazardous Materials Identification System (HMIS), and Canada's Workplace Hazardous Information System (WHMIS) and Environmental Protection Agency (CEPA).

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.