

MATERIAL SAFETY DATA SHEET

MSDS

Belclene® 499

Date-Issued: 07/16/2004
MSDS Ref. No: BWA79210
Date-Revised: 03/23/2005
Revision No: 1

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Belclene® 499
GENERAL USE: Industrial water treatment.

MANUFACTURER

Great Lakes Chemical Corporation
 BioLab Water Additives Division
 P.O. Box 300002
 Lawrenceville, GA 30049-1002
Customer SERVICE: (800) 600-4523

SUPPLIER

See Manufacturer for Supplier Information

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical) : (877) 800 - 5553
CANUTEC (Canadian Transportation) : (613) 996 - 6666
CHEMTREC (US Transportation) : (800) 424 - 9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Derivative of Acrylic Acid Copolymer		

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

PHYSICAL APPEARANCE: Clear to slightly turbid amber liquid with a slight odor.

IMMEDIATE CONCERNS: CAUTION: Causes eye irritation. Avoid contact with eyes. Wear safety glasses when handling this product.
 Wash with soap and water after handling. Remove and wash contaminated clothing before reuse.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation. Avoid contact with eyes.

SKIN: Product is not expected to cause skin irritation. However, as part of a good work and personal hygiene practices, avoid unnecessary contact with skin.

INGESTION: No adverse health effects anticipated from ingestion of incidental amounts of product.

INHALATION: This product is not expected to present an inhalation hazard.

CHRONIC: There are no known chronic hazards.

ROUTES OF ENTRY: Eye Contact

4. FIRST AID MEASURES

EYES: If in eyes: Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention immediately.

SKIN: If on skin or clothing: Remove contaminated clothing and thoroughly wash with soap and water. Get medical attention if irritation

develops and persists.

INGESTION: If swallowed: Call poison control center or doctor immediately for treatment advice. Rinse mouth with water, then dilute by sipping 1 or 2 glasses of water. Do not induce vomiting unless told to do so by the poison control center or doctor.

INHALATION: If inhaled: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth. Call poison control center or doctor for treatment advice.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable (aqueous solution)

GENERAL HAZARD: There are no unusual fire and explosion hazards known.

EXTINGUISHING MEDIA: Appropriate to surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: Product is not flammable or combustible.

EXPLOSION HAZARDS: Not considered to be an 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.

SENSITIVE TO STATIC DISCHARGE: None

SENSITIVITY TO IMPACT: None

HAZARDOUS DECOMPOSITION PRODUCTS: None Known.

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. 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 local, municipal, state, provincial, and federal regulations.

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 out of reach of children. Store away from nitrites, sulphites and alkaline materials. Do not store in mild steel containers (mildly corrosive). Keep containers tightly closed with not in use and when in transit. Store at room temperature in a dry, well ventilated area. Protect containers from physical damage. Do not store below 10°C (50°F).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	OSHA PEL	EXPOSURE LIMITS			
		ACGIH TLV		SUPPLIER OEL	
		ppm	mg/m ³	ppm	mg/m ³
Derivative of Acrylic Acid Copolymer	TWA	N/E [1]		N/E	

OSHA TABLE COMMENTS:

1. N/E = Not Established

ENGINEERING CONTROLS: Dilution ventilation is generally sufficient at room temperature. If misting is anticipated, exhaust ventilation is recommended.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Wear goggles or safety glasses with side shields when handling this product.

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

RESPIRATORY: Avoid inhaling vapors or mist. In case of insufficient ventilation, wear an approved NIOSH respirator.

PROTECTIVE CLOTHING: Remove and wash contaminated clothing before reuse.

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

ODOR: Slight

APPEARANCE: Clear to slightly turbid

COLOR: Amber

pH: < 2

PERCENT VOLATILE: Not Available

VAPOR PRESSURE: 17.5 mmHg @ 20C (water)

VAPOR DENSITY: Not Available

BOILING POINT: 100°C (212°F) to 102°C (215.6°F)

FREEZING POINT: Not Determined

SOLUBILITY IN WATER: Soluble in water in all proportions

SPECIFIC GRAVITY: 1.1 to 1.400 20/20°C

COEFF. OIL/WATER: < 1

ODOR THRESHOLD: Not Available

OXIDIZING PROPERTIES: Not Available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperature. Contamination.

STABILITY: This product is stable under normal conditions.

POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

INCOMPATIBLE MATERIALS: Nitrites, sulphites, alkalies and mild steel.

11. TOXICOLOGICAL INFORMATION**ACUTE**

EYES: Minimally Irritating (rabbit) (similar product)

DERMAL LD₅₀: > 2000 mg/kg of body weight in rats.

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 based on data for a similar product.

INHALATION LC₅₀: No data available for this product.

ACUTE EFFECTS FROM OVEREXPOSURE: This product is expected to cause eye irritation.

EYE EFFECTS: This product is expected to be irritating to eyes.

SKIN EFFECTS: This product is not expected to be a skin irritant or sensitizer.

SENSITIZATION: This product is not expected to be a skin sensitizer.

CHRONIC / SUBCHRONIC:

No significant adverse health effects expected.

CARCINOGENICITY:

This product is not listed as a carcinogen by IARC.

This product is not listed as a carcinogen by NTP.

This product is not listed as a carcinogen by OSHA.

MUTAGENICITY: This product is not expected to be mutagenic.

SYNERGISTIC MATERIALS: None known.

REPRODUCTIVE EFFECTS: This product is not expected to cause reproductive effects.

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

12. ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION:****Acute Toxicity:**

Fish (similar product): 96 hr LC50 > 958 mg/L

Invertebrates (similar product): 48 hr EC50 > 466 mg/L (daphnia magna)

Microorganisms: 72 hour EC50 = 51 mg/L (algae)

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Absorb spilled product onto sand or earth and disposed of as solid waste in accordance with all local, municipal, state, provincial and federal regulations.

An acceptable method of disposal for excess liquid is to burn product in an incinerator in accordance with all local, municipal, state, provincial, and federal regulations. The appropriate regulatory agencies should be contacted prior to disposal.

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

Whenever possible, our company encourages recycling of containers.

EMPTY CONTAINER: Triple rinse container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)**

PROPER SHIPPING NAME: Corrosive Liquid, Acidic, Organic, N.O.S. (Derivative of acrylic acid copolymer)

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. (Derivative of acrylic acid copolymer)

PRIMARY HAZARD CLASS/DIVISION: 8 (Corrosive)

UN/NA NUMBER: 3265

PACKING GROUP: III

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Corrosive Liquid, Acidic, Organic, N.O.S. (Derivative of acrylic acid copolymer)

UN/NA NUMBER: UN 3265

PACKING GROUP: III

INTERNATIONAL

PROPER SHIPPING NAME: Corrosive Liquid, Acidic, Organic, N.O.S. (Derivative of acrylic acid copolymer)

PRIMARY HAZARD CLASS/DIVISION: 8 (Corrosive)

UN/NA NUMBER: UN 3265

PACKING GROUP: III

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

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 irritant

DOMESTIC SUBSTANCE LIST (INVENTORY): Constituents have been notified to Canadian authorities.

CALIFORNIA 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.

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 replaces the August 06, 2004 MSDS. Any changes in information are as follows: In Section 5 Sensitivity to Impact Sensitive Static Discharge In Section 7 Storage In Section 9 Odor Threshold Boiling °F (From) Boiling °F (To) (Group Field) for Freezing Point Freezing Point °F (From) Freezing Point °F (To) Specific Gravity (From) Specific Gravity (To) Specific Gravity (Unit) In Section 14 IMO Proper Shipping Name AIR Proper Shipping Name IMO Primary Hazard Class/Division IMO Packing Group IMO UN/NA Number AIR Packing Group AIR UN/NA Number In Section 16 Manufacturer Disclaimer Comments

HMIS RATING

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

NFPA RATING

HEALTH:		1
FIRE:		0
REACTIVITY:		0

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.