

MATERIAL SAFETY DATA SHEET

Belclene® 201



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MSDS Ref. No: F 16-20-6-1
Date Approved: 03/01/2001
Version: US/Canada
Revision No: 3

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Belclene® 201
GENERAL USE: Scale/deposit control additive

MANUFACTURER

Bio-Lab, Inc.
BioLab Water Additives Division
Post Office Box 1489
Decatur, GA 30031-1489
General Information: (800) 600-4523

Emergency Telephone Numbers:

CHEMTREC (U.S.): (800) 424-9300

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>
Polymaleic Acid, Sodium Salt	70247-90-4	~40
Water	7732-18-5	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

Thermal decomposition and burning will release carbon monoxide and carbon dioxide. Clear or slightly hazy amber liquid with slight odor.

POTENTIAL HEALTH EFFECTS:

Liquid will irritate eyes and skin. Mist may cause irritation of eyes, nose, throat and lungs.

4. FIRST AID MEASURES

EYES:

Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

SKIN:

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

INGESTION:

Drink plenty of water. Never give anything by mouth to an unconscious person. If any discomfort persists, obtain medical attention.

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INHALATION:

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

NOTES TO MEDICAL DOCTOR:

Product will be irritating to the eyes and skin. Treatment is controlled removal of exposure followed by symptomatic and supportive care.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: Not applicable.
FLAMMABLE LIMITS: NOT APPLICABLE
AUTOIGNITION TEMPERATURE: Not available

EXTINGUISHING MEDIA:

Not applicable (aqueous solution)

FIRE / EXPLOSION HAZARDS:

Decomposition and combustion products may be toxic.

FIRE FIGHTING PROCEDURES:

Use self-contained breathing apparatus.

SENSITIVITY TO STATIC DISCHARGE:

Not available

SENSITIVITY TO IMPACT:

Not available

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition and burning may produce carbon monoxide and carbon dioxide.

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:

Use chemical goggles and impervious gloves and aprons when splashing is expected. Wear dust/mist respiratory protection when mist is expected.

STORAGE:

Keep container tightly closed when not in use. Protect from physical damage.

STORAGE TEMPERATURE: Room Temperature

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use with general room ventilation or local exhaust when airborne contamination is expected.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE:

Chemical goggles or face shield.

RESPIRATORY:

Wear MSHA-NIOSH approved dust respirator if excessive visible dust levels are 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Slight

APPEARANCE: Clear or slightly hazy amber liquid

pH: 8 to 9

PERCENT VOLATILE: Not applicable

VAPOR PRESSURE: 24 mmHg @ 25°C (water)

VAPOR DENSITY: (Air = 1): 0.020 @ 25°C

BOILING POINT: 100°C to 101°C

FREEZING POINT: 0°C to -10°C

SOLUBILITY IN WATER: Miscible @ 25°C (% by wt.)

EVAPORATION RATE: (Butyl Acetate = 1): Equivalent to water

DENSITY: Not available

SPECIFIC GRAVITY: (H₂O=1): 1.28

COEFF. OIL/WATER: Not available

ODOR THRESHOLD: Not available

OXIDIZING PROPERTIES: Not available

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10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

None known

STABILITY:

Stable

POLYMERIZATION:

Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition and burning may produce carbon monoxide and carbon dioxide.

INCOMPATIBLE MATERIALS:

Strong oxidizer.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

Minimal irritant (rabbit)

SKIN EFFECTS:

Slight irritant (rabbit); Non-sensitizer (guinea pig)

DERMAL LD₅₀: 3000 mg/kg (rabbit)

ORAL LD₅₀: 15000 mg/kg (rat)

INHALATION LC₅₀: No data available for the product.

ACUTE EFFECTS FROM OVEREXPOSURE:

Product is irritating to eyes and skin.

CHRONIC EFFECTS FROM OVEREXPOSURE:

A 90-day feeding study in animals indicated kidney damage. Product was not genotoxic in standard tests.

CARCINOGENICITY:

IARC:

Not listed

NTP:

Not listed

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OSHA:
Not listed

OTHER:
ACGIH: Not listed

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

Fish Toxicity: (based on active ingredient)
Bluegill: 96 hour LC50 > 225 ppm
Rainbow trout: 96 hour LC50 > 2500 ppm
Invertebrate Toxicity:
Daphnia magna: 48 hour IC50 > 1000 ppm
Brown shrimp: 96 hour LC50 > 10,000 ppm

CHEMICAL FATE INFORMATION:

Effluent Data - BOD: Not biodegradable

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. Because acceptable methods of disposal may vary by location and regulatory agencies should be contacted prior to disposal. Whenever possible, our company encourages recycling of containers.

14. TRANSPORT INFORMATION

U.S. DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated
PRIMARY HAZARD CLASS/DIVISION: Not regulated
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 applicable

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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

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.: Unknown

Hazard Classification: Unknown

Ingredient Disclosure List: Not regulated

Domestic Substance List: One component listed on Domestic Substance List; one component listed on Non-Domestic Substance List

16. OTHER INFORMATION

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REVISION SUMMARY

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This MSDS replaces the October 11, 1999 MSDS. Any changes in information are as follows:

HMIS RATING

HEALTH:	1
FLAMMABILITY	1
REACTIVITY:	0
PROTECTION:	H

Key

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

HMIS RATINGS NOTES:

Protection = H (Safety goggles, gloves, apron and a vapor respirator)

NFPA RATING

FLAMMABILITY



SPECIAL:

[multi][osha-whmis][nfpa][16-hmis]