

MATERIAL SAFETY DATA SHEET

Belclene® 640



Page: 1 of 7
MSDS Ref. No: BWA79140
Date Approved: 11/09/2000
Version: US/Canada
Revision No: New MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Belclene® 640
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>
Phosphonic acid, [nitrilotris(methylene)]tris-Water	6419-19-8	48 – 52
	7732 -18-5	48 – 52

COMMENTS:

EINECS No: 229-146-5 (Phosphonic acid, [nitrilotris(methylene)]tris-)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

Pale yellow liquid with slight odor.

IMMEDIATE CONCERNS:

Caution: Product may cause eye and skin irritation. Avoid contact with eyes, skin or clothing. Wear goggles or safety glasses and rubber gloves when handling this product.

POTENTIAL HEALTH EFFECTS:

Liquid irritating to 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.

MATERIAL SAFETY DATA SHEET

Belclene® 640



Page: 2 of 7

MSDS Ref. No: BWA79140

Date Approved: 11/09/2000

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SKIN:

Remove contaminated clothing. Rinse immediately with plenty of water for at least 15 minutes. If irritation occurs or persists, seek medical attention

INGESTION:

Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

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

AUTOIGNITION TEMPERATURE: Not applicable

EXTINGUISHING MEDIA:

Use appropriate media to the surrounding fire.

FIRE / EXPLOSION HAZARDS:

Minimal fire hazard (aqueous solution)

FIRE FIGHTING PROCEDURES:

Wear NIOSH approved self-contained breathing apparatus and full protective clothing.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, phosphorus and nitrogen oxides, as well as other toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Prevent product from flowing into drains or water courses. Absorb spilled product using sand or other absorbent material. Dispose of as a solid waste in accordance with local, state and federal regulations. Avoid contact with skin, eyes and clothing.

7. HANDLING AND STORAGE

HANDLING:

Avoid direct contact with skin and eyes when handling this material. Keep container closed when not in use.

MATERIAL SAFETY DATA SHEET

Belclene® 640



Page: 3 of 7

MSDS Ref. No: BWA79140

Date Approved: 11/09/2000

Version: US/Canada

Revision No: New MSDS

STORAGE:

Keep containers tightly closed when not in use. Do NOT use containers made of carbon steel. Store away from alkalis, cyanides, and reducing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	TWA (ACGIH)	STEL/Ceiling (ACGIH)	PEL (OSHA)	STEL/Ceiling (OSHA)
Phosphonic acid, [nitrilotris(methylene)]tris-	[1]			

1. Not Established

ENGINEERING CONTROLS:

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

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE:

Safety glasses or goggles

SKIN:

In applications where contact is likely, wear PVC, neoprene, or rubber gloves with overalls or apron.

RESPIRATORY:

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

WORK HYGIENIC PRACTICES:

Wash hands thoroughly with soap and water after handling product. Remove and wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Slight

APPEARANCE: Pale yellow liquid

pH: <2

VAPOR PRESSURE: ~20 MBAR at 20°C

VAPOR DENSITY: Not Established

BOILING POINT: 101°C to 103°C

FREEZING POINT: -15°C

SOLUBILITY IN WATER: Soluble

DENSITY: 1.34 g/cc @ 20°C

COEFF. OIL/WATER: Log P(octanol/water) << 3 (est.)

MATERIAL SAFETY DATA SHEET

Belclene® 640



Page: 4 of 7
MSDS Ref. No: BWA79140
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10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Alkaline materials, cyanides, and reducing agents.

STABILITY:

Stable under normal handling or storage conditions.

POLYMERIZATION:

Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, phosphorus and nitrogen oxides.

INCOMPATIBLE MATERIALS:

Alkaline materials, cyanides, and reducing agents.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

Irritant (rabbit)

SKIN EFFECTS:

Irritant (rabbit)

ORAL LD₅₀: >10000 mg/kg (rat)

CARCINOGENICITY

<u>Chemical Name</u>	<u>NTP Status</u>	<u>IARC Status</u>	<u>OSHA Status</u>	<u>Other</u>
Phosphonic acid, [nitri- lotris(methylene)]tris-	Not listed	Not listed	Not listed	(ACGIH) Not Listed

12. ECOLOGICAL INFORMATION

Eliminated from waste water plants by precipitation with ferric and aluminum salts.

ECOTOXICOLOGICAL INFORMATION:

96-hr. LC50 = 300 mg/L (Rainbow Trout)

MATERIAL SAFETY DATA SHEET

Belclene® 640



Page: 5 of 7

MSDS Ref. No: BWA79140

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13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Absorb spillages onto sand or other absorbent material. 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. Whenever possible, our company encourages recycling of containers.

14. TRANSPORT INFORMATION

U.S. DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive liquid, acidic, organic, N.O.S. (contains Phosphonic acid, [nitrilotris(methylene)]tris-)

PRIMARY HAZARD CLASS/DIVISION: 8 (Corrosive)

UN/NA NUMBER: 3265

PACKING GROUP: III

BULK FREIGHT CLASS: CORROSIVE - FOR CONVEYANCE

IRRITANT - FOR SUPPLY

PLACARDS: Corrosive.

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Corrosive liquid, acidic, organic, N.O.S. (contains Phosphonic acid, [nitrilotris(methylene)]tris-)

PRIMARY HAZARD CLASS/DIVISION: 8 (Corrosive)

UN/NA NUMBER: 3265

PACKING GROUP: III

SPECIAL SHIPPING NOTES:

IMDG: Corrosive liquid, acidic, organic, N.O.S. (nitrilotris(methylenephosphonic)acid)

IATA: Corrosive liquid, acidic, organic, N.O.S. (nitrilotris(methylenephosphonic)acid)

Keep container tightly closed. Protect against physical damage.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 311 HAZARD CATEGORY (40 CFR 370):

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

MATERIAL SAFETY DATA SHEET

Belclene® 640



Page: 6 of 7
MSDS Ref. No: BWA79140
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TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY (40 CFR 707.60): This product or its components are not subject to export notification

TSCA STATUS (40 CFR 710): This product or its components are listed on the TSCA Inventory.

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: E

Ingredient Disclosure List: Not Listed

Domestic Substance List: Listed

16. OTHER INFORMATION

REVISION SUMMARY

New MSDS

HMIS RATING

HEALTH:	2
FLAMMABILITY	0
REACTIVITY:	0
PROTECTION:	B

Key

4 = Severe

3 = Serious

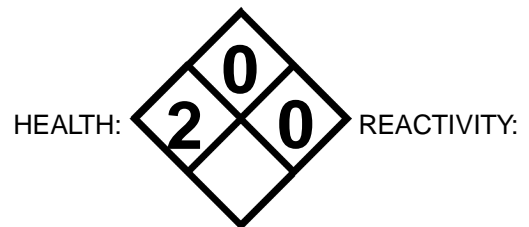
2 = Moderate

1 = Slight

0 = Minimal

NFPA RATING

FLAMMABILITY



MANUFACTURER DISCLAIMER:

IMPORTANT: This 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, state, local or international 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.

MATERIAL SAFETY DATA SHEET

Belclene® 640



Page: 7 of 7

MSDS Ref. No: BWA79140

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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)
