

MATERIAL SAFETY DATA SHEET**Belsperse® 161**

MSDS Ref. No: 71050-62-9-4

Version: US/Canada

Date Approved: 04/16/2003

Revision No: 4

1. PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME:** Belsperse® 161**GENERAL USE:** Dispersant/threshold agent**MANUFACTURER**

Bio-Lab, Inc.
 BioLab Water Additives Division
 P.O. Box 300002
 Lawrenceville, GA 30049-1002

GENERAL INFORMATION: (800) 600-4523

EMERGENCY TELEPHONE NUMBERS:

CHEMTREC (U.S.): (800) 424-9300
CANUTEC: (613) 996-6666
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>
2-Propenoic Acid, Polymer with Sodium Phosphinate	71050-62-9	50
Water	7732-18-5	

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

IMMEDIATE CONCERNS: Material is stable and non-hazardous under normal conditions of use. In fire conditions, toxic vapors of phosphorus oxides and carbon monoxide may be released.

POTENTIAL HEALTH EFFECTS: No significant health effects anticipated.

4. FIRST AID MEASURES

EYES: Flush with plenty of water. Get medical attention if irritation occurs and persists.

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.

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

FLAMMABLE LIMITS: Not applicable

AUTOIGNITION TEMPERATURE: Not available

EXTINGUISHING MEDIA: Not applicable (aqueous solution)

FIRE / EXPLOSION HAZARDS: Minimal fire hazard (aqueous solution)

FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus.

SENSITIVITY TO STATIC DISCHARGE: None

SENSITIVITY TO IMPACT: None

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic decomposition products, including carbon monoxide and carbon dioxide, may be produced in a fire.

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.

7. HANDLING AND STORAGE

HANDLING: Avoid direct contact with skin and eyes when handling this material.

STORAGE: Store at room temperature. Keep containers closed when not in use. Protect containers from physical damage.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Under normal conditions of use, exposure should not be a significant concern. Use with general room ventilation or local exhaust when airborne contamination is expected. Under unusual or emergency conditions, the personal protective equipment indicated below is recommended.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical-type goggles or face shield.

RESPIRATORY: Use MSHA/NIOSH approved dust/mist respiratory protection when airborne mist is 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 to slightly turbid amber liquid

pH: 3 to 5

PERCENT VOLATILE: Not available

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

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

BOILING POINT: 103°C

FREEZING POINT: -3°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: 1.24 (water=1)

COEFF. OIL/WATER: Not available

ODOR THRESHOLD: Not available

OXIDIZING PROPERTIES: Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable

POLYMERIZATION: Will not occur

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

INCOMPATIBLE MATERIALS: Alkaline materials, acid reactive salts such as nitrites and sulphites, mild steel.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Non-irritant (rabbit) (similar product)

SKIN EFFECTS: Non-irritant (rabbit) (similar product)

DERMAL LD₅₀: No data available for the product.

ORAL LD₅₀: >5000 mg/kg (rat) (similar product)

INHALATION LC₅₀: No data available for the product.

ACUTE EFFECTS FROM OVEREXPOSURE: Product is not expected to be irritating to the eyes and skin.

CHRONIC EFFECTS FROM OVEREXPOSURE: A 90-day feeding study in rats indicated bone damage and kidney effects with a similar product. Product was not genotoxic in standard tests.

CARCINOGENICITY:

IARC: Not listed

NTP: Not listed

OSHA: Not listed

OTHER: ACGIH: Not listed

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available for product. Data below are for a similar product.

Rainbow Trout: 96 hour LC₅₀ > 1000 ppm (solids)

Zebra Fish: 96 hour LC₅₀ > 1000 ppm (solids)

Brown Shrimp: 96 hour LC₅₀ > 10,000 ppm

Daphnia Magna: 24 hour EC₅₀ > 320 ppm

Algae: *Scenedesmus subspicatus*, EBC₅₀ (0-72 hour) = 130 ppm

CHEMICAL FATE INFORMATION: No data available for product. Data below are for a similar product.

Effluent data -

BOD: Modified OECD test 301E-Not Biodegradable

OECD Closed Bottle Test 301D-Not Biodegradable

COD: 1.113 g Oxygen/g

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. The appropriate regulatory agencies should be contacted prior to disposal.

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

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME: Not regulated
PRIMARY HAZARD CLASS/DIVISION: Not applicable
UN/NA NUMBER: None
PLACARDS: Not required
LABEL: Not required
OTHER SHIPPING INFORMATION:
 DOT Marking: Not required
 Hazardous Substance/RQ: Not listed
 49 STCC Number: None

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.: None

Hazard Classification: None
 Ingredient Disclosure List: Listed
 Domestic Substance List: Listed

16. OTHER INFORMATION

REVISION SUMMARY Revision #: 4

This MSDS replaces the October 15, 1999 MSDS. Any changes in information are as follows:

In Section 1
 Prepared By

HMIS RATING

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

NFPA RATING

HEALTH:		1
FLAMMABILITY		0
REACTIVITY:		0
SPECIAL:		None

Key

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

HMIS RATINGS NOTES: Health = 1 (chronic effects)

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

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)