

MATERIAL SAFETY DATA SHEET

MSDS

Belclene® 515

Date-Issued: 01/16/2004
MSDS Ref. No: BWA79240
Date-Revised: 01/22/2004
Revision No: New MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Belclene® 515
GENERAL USE: Corrosion inhibitor

MANUFACTURER

Bio-Lab, Inc.
 BioLab Water Additives Division
 P.O. Box 300002
 Lawrenceville, GA 30049-1002
Customer SERVICE: (800) 600-4523

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>
Sodium Salt of Tolyltriazole	64665-57-2	30 - 60
Sodium hydroxide	1310-73-2	0 - 1

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

PHYSICAL APPEARANCE: Yellow to brown liquid

IMMEDIATE CONCERNS: DANGER: Corrosive. Causes eye and skin burns. Harmful if swallowed. Avoid contact with eyes, skin or clothing. Wear goggles or safety glasses and rubber gloves when handling this product. If product gets on clothing, remove and wash clothing before reuse.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye burns. Do not get in eyes.

SKIN: Causes skin burns. Do not get on skin.

INGESTION: Harmful if swallowed.

INHALATION: Irritating to respiratory tract. Avoid breathing mist and vapor.

CHRONIC: 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. Call poison control center or doctor for treatment advice.

SKIN: If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for at least 15 - 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed: 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: 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: 180°C TCC

EXTINGUISHING MEDIA: Water spray, fog or mist; foam, carbon dioxide, or dry powder.

HAZARDOUS COMBUSTION PRODUCTS: Combustion products may include, but are not limited to, carbon monoxide, carbon dioxide, and nitrogen oxides.

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

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

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 carbon dioxide, carbon monoxide or nitrogen oxides.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Prevent product from flowing into drains or water courses. 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 as a solid waste in accordance with municipal, state/provincial, and federal regulations.

7. HANDLING AND STORAGE

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

HANDLING: Use safe chemical handling procedures for the hazards presented by this material. Do not mix with other chemicals.

STORAGE: Keep out of reach of children. Keep container tightly closed when not in use. Store at room temperature in a dry, well ventilated area. Protect from light, including direct sun light. Store away from acids or oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		<u>EXPOSURE LIMITS</u>					
		<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
		<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Sodium Salt of Tolyltriazole	TWA	[1]		[2]			
Sodium hydroxide	TWA		2		2		
	STEL				2		

OSHA TABLE COMMENTS:

1. N/E = None Established
2. N/E = Not Established

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

PERSONAL PROTECTIVE EQUIPMENT:

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

SKIN: Wear solvent resistant gloves when handling this product. Avoid contact with skin.

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

WORK HYGIENIC PRACTICES: Remove and wash contaminated clothing before reuse.

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

COLOR: Yellow to brown

pH: 13.5

VAPOR PRESSURE: 25 MBAR at 25°C

VAPOR DENSITY: Not Established

BOILING POINT: 106°C

FREEZING POINT: -5°C to -10°C

SOLUBILITY IN WATER: Miscible in Water

EVAPORATION RATE: Not Established

DENSITY: 1.19 g/ml @ 20C

VISCOSITY: 38mPas at 20°C

COEFF. OIL/WATER: Not Established

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid storage at extreme temperatures. Incompatible materials.

STABILITY: This product is stable under normal handling or storage conditions.

POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

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

INCOMPATIBLE MATERIALS: Strong oxidizing agents, acids and alkalies.

11. TOXICOLOGICAL INFORMATION**ACUTE**

EYES: No data available for this product.

DERMAL LD₅₀: No data available for this product.

ORAL LD₅₀: 640-920 mg/kg of body weight in rats

INHALATION LC₅₀: No data available for this product

This product is expected to severe eye and skin irritation, and burns. Prolonged contact can be destructive to tissue.

EYE EFFECTS: Causes eye burns.

SKIN EFFECTS: Causes skin burns.

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

CHRONIC / SUBCHRONIC:

No known chronic effects.

CARCINOGENICITY:

The components of this product are not listed as a carcinogen by IARC.

The components of this product are not listed as a carcinogen by NTP.

The components of this product are 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:**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquating environment.

Fish - 96 hr LC50 = 51 mg/l

Daphnia - 24 hr EC50 = 33 mg/l

Bacteria - 72 hr IC50 > 100 mg/l

13. DISPOSAL CONSIDERATIONS

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

EMPTY CONTAINER: Do not reuse empty container.

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

PROPER SHIPPING NAME: Caustic Alkali Liquid, N.O.S. (Contains Sodium salt of tolyltriazole)

PRIMARY HAZARD CLASS/DIVISION: 8 (Corrosive)

UN/NA NUMBER: 1719

PACKING GROUP: II

CANADA TRANSPORT OF DANGEROUS GOODS

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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 contains sodium hydroxide, which is listed as a CERCLA Hazardous Substance.

CERCLA RQ: Sodium hydroxide RQ is 1000 lb.

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.

RCRA STATUS: This product when discarded is a hazardous waste as that term is defined by 40 CFR 261. US EPA RCRA hazardous waste number: D002

CLEAN WATER ACT: This product contains sodium hydroxide, which is listed as a Clean Water Act Section 311 Hazardous Substance.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This product is not a US EPA registered pesticide.

CANADA

WHMIS CLASS: E - Corrosive Material

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 New MSDS

HMIS RATING

HEALTH:		3
FLAMMABILITY:		0
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		B

NFPA RATING

HEALTH:	3
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, State 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.