



# Biochemical Diagnostics, Inc.

180 Heartland Blvd., Edgewood, NY 11717 • Phone (631) 595-9200 Fax (631) 595-9204

## MATERIAL SAFETY DATA SHEET

### GENERAL INFORMATION

**TRADE NAME:** Detectabuse Elution Solvent  
n-butyl Chloride:Acetonitrile

**Catalog Number:** (45:55) 1406000-1,1406003-8  
(70:30) 1406000-2,1406000-3

**Chemical Name:** n-butyl chloride: acetonitrile

**CAS #:** 109-69-3, 75-05-8

**Formula:** C<sub>4</sub>H<sub>9</sub>CL:CH<sub>3</sub>CN

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### INGREDIENTS

**Components:** n-butyl chloride,acetonitrile

**Threshold Limit Values:** N/A

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### PHYSICAL DATA

**Boiling Point:** @79 C

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Specific Gravity:** @0.800

**Percent Volatile:** N/A

**Evaporation Rate:** N/A

**Solubility H<sub>2</sub>O:** Slightly Miscible

**pH:** N/A

**Appearance:** Clear, colorless liquid

**Odor:** unpleasant, possibly ether-like

**Melting Point:** N/A

### FIRE AND EXPLOSION HAZARD DATA

**Flammable Limits:**

**Lel:** 1.8%

**Uel:** 16%

**Flash Point:** N/A

**Auto Ignition Temp:** N/A

**Extinguishing Media:** Carbon dioxide,  
dry chemical or foam.

**Special Fire Fighting Procedures:** Wear proper  
protective equipment w/Self-contained breathing  
apparatus.

**Unusual Fire and Explosion Hazards:** Keep fire  
exposed containers cool. Heat will build pressure  
and may rupture closed storage containers.

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### REACTIVITY DATA

**Stability:** Stable

**Incompatibility:** Heat, sparks, open flame, open  
containers, and poor ventilation. Avoid metals and  
strong bases. Oxidizing materials, sulfuric acid,  
oleum, chlorosulfonic acid, and perchlorates.

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition:** Incomplete combustion can generate phosgene, hydrogen chloride, and toxic vapors. . May produce nitrous oxides and carbon monoxide. Toxic fumes of hydrogen cyanide may occur above 120 C.

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### **ENVIRONMENTAL PROTECTION PROCEDURES**

**Spill Response:** Wear suitable clothing, carefully absorb material with absorbent recommended for solvent spills and remove.

**Waste Disposal Method:** Dispose in accordance with state, local and federal regulations. N- butyl-chloride is an EPA hazardous waste (#D001)

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### **SPECIAL PROTECTION INFORMATION**

**Eye Protection:** Goggles, or face shield.

**Skin Protection:** Gloves, impervious protective clothing.

**Respiratory Protection:** Use approved respirator equipment.

**Ventilation** A system of local and general exhaust is recommended to keep employee exposures below the airborne exposure limits.

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**Note:** Effects of overexposure to Acetonitrile are often delayed, possibly due to the slow formation of cyanide anions in the body. The cyanide anions prevent the body from using oxygen and can lead to internal asphyxiation. Early symptoms may include nose and throat irritation, flushing of the face, and chest tightness. Higher concentrations may produce

headache, nausea, vomiting, respiratory depression, weakness, abdominal pain, convulsions, shock, unconsciousness and death, depending on concentration and time of exposure. This highly toxic material has insufficient warning properties to prevent personnel from working contaminated atmospheres.

### **SPECIAL PRECAUTIONS**

**Insert Precautions:**

Keep container tightly closed.

**Contaminated Equipment Precautions:** Wash thoroughly with soap and water.

**Hygienic Handling and Storage:** Wash thoroughly with soap and water. Wash clothing before reuse.

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### **EMERGENCY AND FIRST AID PROCEDURES:**

FOLLOWING ANY ROUTE OF EXPOSURE TO ACETONITRILE, GET MEDICAL ATTENTION IMMEDIATELY. ADMINISTER AMYL NITRITE AMPULES BY PREPLANNED DIRECTIONS.

**Ingestion:** Can cause gastrointestinal tract discomfort. Induce vomiting, call physician immediately.

**Inhalation:** Remove to fresh air. Exposure can cause depression or stimulation of the CNS. If not breathing give artificial respiration. **DO NOT GIVE Mouth-to-Mouth resuscitation.** If breathing is difficult give oxygen. Keep patient warm and at rest.