

SAFETY DATA SHEET (SDS)

n-Butyl Chloride: Ethyl Acetate

01. Product and Company Identification

Product Identifier:

Trade Name: Detectabase Elution Solvent, n-Butyl Chloride: Ethyl Acetate (80:20)
w/o Triethylamine
Chemical Name: n-Butyl Chloride: Ethyl Acetate
Catalog Number: 14060050, 14060051
Use of chemical: Laboratory chemical

Identification of Manufacturer:

Manufacturer/Supplier: Biochemical Diagnostics, Inc.
180 Heartland Blvd., Edgewood, NY 11717
Phone: (631) 595-9200 | Fax: (631) 595-9204
Emergency telephone number: (800) 255-3924

02. Hazard(s) Identification

Classification of substance or mixture:

Flammable liquids (Category 2)
Highly flammable liquid and vapor
 Eye Irritation (Category 2B)
Causes eye irritation. May cause respiratory irritation.
 Acute toxicity, Oral (Category 5)
May be harmful if swallowed.
 Specific target organ toxicity-single exposure (Category 3), CNS
May cause drowsiness or dizziness.

Label elements:

Hazard pictograms



Flammable



Irritant

Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.
 H320 Causes eye irritation.
 H336 May cause drowsiness or dizziness.
 H303 May be harmful if swallowed.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P264 Wash skin thoroughly after handling.
 P271 Use in a well-ventilated area or outdoors.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
 P304+340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
 Rinse skin with water/ shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 2
 Fire = 3
 Reactivity = 0



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HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

03. Composition/information on ingredients

Chemical Characterization: Mixture

CAS No. Description: 109-69-3, 141-78-6

Formula: Mixture of *n*-Butyl Chloride 80%
and Ethyl Acetate 20%
C₄H₉Cl: CH₃COOC₂H₅

04. First aid measures

Description of first aid measures:

- Inhalation:** Remove to fresh air. Causes irritation to mucous membranes and upper respiratory tract. Consult a physician.
- Ingestion:** Rinse mouth with water. Seek medical attention.
- Skin Contact:** Wash immediately with soap and water. Remove contaminated clothing. Consult a physician.
- Eye Contact:** Rinse with thoroughly with plenty of water for at least 15 minutes. Seek medical attention.

05. Firefighting measures

Extinguishing media: Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide. Water may be ineffective.

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. Sensitive to static discharge. Flammable Liquid and vapor. Dangerous fire hazard when exposed to heat of flame.

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06. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Prevent further leakage if safe to do. Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and remove. Ensure adequate ventilation.

Waste Disposal Method:

Dispose in accordance with state, local and federal regulations

07. Handling and storage

Handling:

Precautions for safe handling: No special precautions are necessary if used correctly.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Further information about storage conditions: Keep receptacle tightly sealed.

Store in well-ventilated, cool, dry conditions in well-sealed receptacles. Keep container upright to prevent leakage.

08. Exposure controls/ personal protection

Exposure Controls:

Control parameters:

Components with limit values that require monitoring at the workplace:

141-78-6 Ethyl Acetate

PEL Long-term value: 1400 mg/m³, 400 ppm

REL Long-term value: 1400 mg/m³, 400 ppm

TLV Short-term value: 1440 mg/m³, 400 ppm

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Eye Protection:



Tightly sealed goggles

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact

Protection of Hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Respiratory Protection: In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use respiratory protective device that is independent of

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circulating air.

Ventilation: Keep vapor levels as low as possible, use adequate general or local exhaust.

09. Physical and chemical properties

Appearance:

Form: Liquid

Color: Colorless

Odor: unpleasant, possibly fruity

pH: not available

Melting Point: not available

Boiling Point: 78.4°C/ 173°F

Flash Point: not available

Ignition temperature: not available

Explosion limits: Lower: not available

Upper: not available

Vapor Pressure @ 19°C: 78 mm Hg

Specific Gravity @ 20°C (68°F): 0.900 g/cm³

Vapor Density: not available

Percent Volatile: not available

Evaporation Rate: BuAc=1, @ca 9

Flammable Limits in air % by volume: Lel: 1.9%

Uel: 10.8%

Solubility in/ Miscibility with Water@20°C: 10-20%

10. Stability and reactivity

Stability: Stable

Incompatibility: Avoid nitrates, strong oxidizers, strong alkalis, or strong acids. Will attack some forms of plastic, rubber, and coatings.

Conditions to Avoid: Heat, sparks, open flame, open containers and poor ventilation.

Hazardous Polymerization: Will not occur

Hazardous Decomposition: Carbon dioxide and carbon monoxide may form when heated to decomposition.

11. Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

(n-Butyl chloride)

Oral LD50 2,670 mg/kg (rabbit)

(Ethyl Acetate)

Inhalation LC50/2 h 45,000 mg/l (rat)

Dermal LD50 >18,000 mg/kg (rabbit)

Potential health effects:

On the skin: Mild irritant.

On the eye: Eye irritation.

Inhalation: Can cause depression or stimulation of CNS.

Sensitization: No sensitizing effects known.

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Toxicity: No data available.
Persistence and degradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other adverse effects: No data available.

13. Disposal considerations**Waste treatment methods****Product:**

Dispose of waste in accordance to applicable national, regional, or local regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

14. Transport Information**UN Number:**

1993

UN proper shipping name:

Flammable liquids, n.o.s. (Chlorobutane, Ethyl Acetate)

Transport hazard class(es):

3

Packing group:

II

Environmental hazards:

None

Special precautions

None

15. Regulatory Information**SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

Fire Hazard

16. Other Information**Revision B, June 2015**



**Biochemical
Diagnostics, Inc.**

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