

HELENA LABORATORIES**SAFETY DATA SHEET**

DATE PREPARED: 7/17/2025

REVISION: 7

1. IDENTIFICATION**Product identifier used on the label:** Electra B1 Buffer**Product number:** 5016**Recommended use of the chemical and restrictions in use:** For In-Vitro Diagnostic use.**Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**

Helena Laboratories
1530 Lindbergh Dr.
Beaumont, TX 77707
Tel: (409) 842-3714
USA Toll Free 800-231-5663

Emergency phone number:
(409) 842-3714

2. HAZARD IDENTIFICATION**Classification of the substrate or mixture****GHS Classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Acute Toxicity, Oral Category 2
Acute Toxicity, Inhalation Category 2
Toxic to aquatic life with long lasting effects

GHS Label elements**Signal word:** Danger**Hazard Statements:**

Toxic if swallow, in contact with skin or if inhaled.
May cause damage to organs through prolonged or repeated exposure if swallowed.

Precautionary Statements:

Wash skin thoroughly after handling.

If swallowed, immediately call a poison center or doctor.

Wear protective gloves / protective clothing / eye and face protection.

Avoid release to the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS #	Concentration
Electra B1 Buffer	Barbital, Sodium Barbital	57-44-3, 144-02-5	>90 %
	Sodium Azide	26628-22-8	< 10 %

4. FIRST AID MEASURES**Description of first aid measures:**

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Take off contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs, get medical attention.

Eye contact: Immediately flush eyes with plenty of water. Remove contact lenses if present. Consult a physician.

Ingestion: If swallowed: immediately call a poison center or doctor.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray, Dry chemical, carbon dioxide, or Alcohol resistant foam.

Special hazards: Emit toxic fumes under fire (Carbon Oxide, Nitrogen oxide, Sodium oxide)

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus (SCBA) and full protective clothing gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Wear personal protective equipment. Evacuate personnel to safe areas. Soak up with inert absorbent material and transfer to container for proper disposal.

Methods and materials for containment and cleaning up: Do not allow material to enter drains/surface water/ground water. Ventilate the area. Vacuum residues.

7. HANDLING AND STORAGE

Precautions for safe handling: Wear personal protective equipment, do not inhale, avoid contact with skin and eye.

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed and store tightly sealed in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits (AGGIH TLV & OSHA PEL):

Chemical Name	AGGIH TLV	OSHA PEL
Sodium Azide	0.29 mg/m ³	0.1 ppm (0.3 mg/m ³)

Exposure controls

Respiratory protection: Use NIOSH approved respirators if exposure limits are exceeded.

Skin protection: Wear appropriate protective gloves and suitable protective clothing.

Eye protection: Wear appropriate safety glasses, goggles or face shield.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder

Odor: None

Odor Threshold: No data available

pH: No data available

Melting point/Freezing point: No data available

Initial boiling point and range: Not applicable

Flash point: Not applicable

Evaporation Rate: No data available

Flammability (solid, gas): No data available

Upper/lower Flammability or explosive limits: Not applicable

Vapor pressure: No data available

Relative density: No data available

Solubility in water: Soluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive under standard conditions

Chemical stability: Stable under normal condition

Possibility of hazard reaction: Hazardous polymerization does not occur

Conditions to avoid: Avoid contact with incompatible materials and heat.

Incompatible materials: Oxidizing agents, strong acids

Hazard decomposition products: Carbon oxides, nitrogen oxides, sodium oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

The calculated ATE value: LD50 = 227 mg/kg

See the following table for individual ingredient acute toxicity data

Chemical name	LD 50 (oral, rat)
Barbital	600 mg/kg
Sodium Azide	27 mg/kg

Carcinogenicity: Not listed as a carcinogen by AGGIH, IARC, OSHA or NTP.

Potential Chronic Health Effects: The chronic exposure may result in psychic or physical dependence.

Other important toxicological hazards: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Sodium Azide is highly toxic to aquatic organisms.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: Prevent release to the environment.

13. DISPOSAL CONSIDERATION

Waste material must be disposed of in accordance with the national and local regulations.

14. TRANSPORT INFORMATION

DOT (US): 2811

UN number: UN2811

UN proper shipping name: UN2811, Toxic Solids, Organic, nos. (Barbital, Sodium Barbital)

Transport hazard class: 6.1

Packing group: III

15. REGULATORY INFORMATION**US State Right to Know Laws:**

California Proposition 65: This product contains chemical Barbiturates, which is known to the State of California to cause birth defects or other reproductive harm.

For more information, go to www.p65warnings.ca.gov

International regulations:

EU Reach: No information available.

16. OTHER INFORMATION**SDS Creation date: 9/11/2015****Revision: 7**

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Helena Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.