

Revision Number	1.0
Revision Date	Nov. 2025
Issuing Date	Nov. 2025

## SAFETY DATA SHEET – Ligation Buffer

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Ligation Buffer

**PRODUCT NUMBER:** M2008

**COMPANY:** Alida Biosciences, Inc.

**ADDRESS:** 11535 Sorrento Valley Rd. Ste. 407, San Diego, CA 92121

**EMAIL ADDRESS:** [support@alidabio.com](mailto:support@alidabio.com)

**WEBSITE:** <https://alidabio.com/>

**EMERGENCY PHONE:** (720) 375-1071

**PRODUCT USE:** DNA library sequencing - Research use only

### SECTION 2: HAZARDS IDENTIFICATION

#### HAZARD CLASSIFICATION:

This product contains chemicals considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids (Category 4), H227

#### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS:

**PICTOGRAM** None.

**SIGNAL WORD** None.

**HAZARD STATEMENTS** H227 Combustible liquid

#### PRECAUTIONARY STATEMENTS

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P280 Wear protective gloves/ eye protection/ face protection.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container to an approved waste disposal plant.

#### HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS

Rapidly absorbed through skin and may carry other dissolved chemicals into the body.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### INGREDIENTS:

	<u>CAS NO.</u>	<u>% VOL</u>
Dimethyl Sulfoxide (DMSO)	67-68-5	11 - 12%
Other non-hazardous, proprietary ingredients		~90%

### SECTION 4: FIRST AID MEASURES

**GENERAL ADVICE:** If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

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**EYES:** Rinse out with plenty of water. Remove contact lenses. Consult a doctor.

**SKIN:** Wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reusing. Consult a doctor.

**INGESTION:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

**INHALATION:** Move to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

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### SECTION 5: FIRE-FIGHTING MEASURES

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**SUITABLE EXTINGUISHING MEDIA:** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** Combustible material. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides. Sulfides. Formaldehyde.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**PERSONAL PRECAUTIONS:** Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS:** Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

**METHODS FOR CONTAINMENT AND CLEAN UP:** Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

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### SECTION 7: HANDLING AND STORAGE

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**HANDLING:** Wear personal protective equipment/face protection. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

**STORAGE:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flames. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Alkali metals.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** None required under normal use conditions.

**VENTILATION:** Use in well-ventilated areas.

**RESPIRATORY PROTECTION:** None required under normal use conditions.

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**EYE PROTECTION:** Safety glasses recommended.

**SKIN PROTECTION:** Wear appropriate laboratory apparel and impervious gloves.

**WORK HYGIENIC PRACTICES:** Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas thoroughly with mild soap and water after handling and before eating, drinking, smoking, or using the bathroom. Promptly remove soiled clothing and wash thoroughly before reuse.

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### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**PHYSICAL STATE:** Liquid.

**APPEARANCE:** Colorless.

**ODOR:** Odorless.

**pH:** No data available.

**BOILING POINT:** No data available.

**MELTING POINT:** No data available.

**FREEZING POINT:** No data available.

**VAPOR PRESSURE:** No data available.

**VAPOR DENSITY:** No data available.

**SPECIFIC GRAVITY:** No data available.

**EVAPORATION RATE:** No data available.

**SOLUBILITY IN WATER:** No data available.

**PERCENT SOLIDS BY WEIGHT:** No data available.

**PERCENT VOLATILE:** No data available.

**VOLATILE ORGANIC COMPOUNDS (VOC):** No data available.

**MOLECULAR WEIGHT:** No data available.

**VISCOSITY:** No data available.

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### **SECTION 10: STABILITY AND REACTIVITY**

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**REACTIVE HAZARD:** None known, based on information available

**STABILITY:** Hygroscopic.

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**CONDITIONS TO AVOID:** Incompatible products. Excess heat. Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of ignition.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, Strong acids, Strong bases, Alkali metals

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides, Sulfides, Formaldehyde

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization does not occur.

**HAZARDOUS REACTIONS:** Thermal decomposition can take place above 189°C / 372°F.

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### **SECTION 11: TOXICOLOGICAL INFORMATION**

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#### **ACUTE TOXICITY:**

##### **COMPONENT INFORMATION**

<b>Component</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Dimethyl sulfoxide	LD50 = 28300 mg/kg (Rat)	LD50 = 40000 mg/kg (Rat)	LC50 > 5.33 mg/L (Rat) 4 h

**IRRITATION:** Not classified based on available information.

**SENSITIZATION:** Not classified based on available information.

**CARCINOGENICITY:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA, IARC, NTP, ACGIH

**MUTAGENIC EFFECTS:** Not classified based on available information.

**REPRODUCTIVE EFFECTS:** Not classified based on available information.

**DEVELOPMENTAL EFFECTS:** Not classified based on available information.

**TERATOGENICITY:** Not classified based on available information.

**STOT - SINGLE EXPOSURE:** Not classified based on available information.

**STOT - REPEATED EXPOSURE:** Not classified based on available information.

**ASPIRATION HAZARD:** Not classified based on available information.

**SYMPTOMS / EFFECTS, BOTH ACUTE AND DELAYED:** Not classified based on available information.

**ENDOCRINE DISRUPTOR INFORMATION:** Not classified based on available information.

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### **SECTION 12: ECOLOGICAL INFORMATION**

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**ECOTOXICITY:** Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants. Do not empty into drains.

**PERSISTENCE AND DEGRADABILITY:** Persistence is unlikely.

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**BIOACCUMULATION/ ACCUMULATION:** No information available.

**MOBILITY:** Will likely be mobile in the environment due to its water solubility.

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### SECTION 13: DISPOSAL CONSIDERATIONS

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Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

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### SECTION 14: TRANSPORT INFORMATION

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**DOT (US)**

COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY

According to 49 CFR §173.150(f)(1), this material should be reclassified as NA1993, Combustible Liquid, n.o.s. if it is shipped in bulk

**UN-NO** NA1993

**PROPER SHIPPING NAME** Combustible liquid, n.o.s.

**PACKING GROUP** III

**IMDG** Not dangerous goods

**IATA** Not dangerous goods

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### SECTION 15: REGULATORY INFORMATION

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**REGULATORY OVERVIEW:** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**U.S. FEDERAL REGULATIONS:**

**SARA 313** SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 HAZARD CATEGORIES:** Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (CLEAN WATER ACT):** Not applicable

**CLEAN AIR ACT:** Not applicable

**OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:** Not applicable

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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**CALIFORNIA PROPOSITION 65:** This product does not contain any Proposition 65 chemicals.

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### **SECTION 16: OTHER INFORMATION**

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**DISCLAIMER:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief on the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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