SAFETY DATA SHEET

Preparation Date: 11/12/2026
Revision Date: 11/12/2026

SECTION 1: Identification

AbNano™ VHH Anti-B-Cell Library

Catalog Number: L780-300
Manufacturer: Bethyl Laboratories
4898 Ronson Ct, Ste F
San Diego CA 92111

BETHYL CUSTOMER SERVICE: 1-800-338-9597
CHEMTREC (EMERGENCY ONLY): (800) 424-9300
POISON CENTER: (800) 562-8236

Relevant Identified Uses: Laboratory chemicals, Manufacture substances.

Restrictions on Use: Not for therapeutic or clinical use in humans or animals.

SECTION 2: Hazards Identification

EMERGENCY OVERVIEW:

OSHA Hazards: The product contains no substances which, at their given concentration, are considered to be hazardous to health.

Hazards not otherwise classified (HNOC) or not covered by GHS: None known.

Acute Toxicity (Oral) Category 1 (H300)

Acute Aquatic Toxicity Category 1 (H400)

Chronic Aquatic Toxicity Category 1 (H410)

GHS LABELING:

SIGNAL WORD:

PRECAUTIONARY STATEMENTS:

EYE CONTACT: No known effects.

SKIN CONTACT: No known effects.

INHALATION: No known effects.

INGESTION: Do not ingest.

ACUTE HEALTH EFFECTS: No known effects.

CHRONIC HEALTH EFFECTS: No known effects.

AGGRAVATION of PRE-EXISTING CONDITIONS: No known effects or interactions

SECTION 3: Composition and Information on Ingredients

EINECS NUMBER: NA (See components)

INGREDIENTS	CAS #	% by Mass	Hazardous
Phosphate Buffered Saline (PBS)		80%	No
•Sodium chloride	7647-14-5		
•Disodium phosphate	7558-79-4		
•Potassium chloride	7447-40-7		
•Monosodium phosphate	7558-80-7		
•Water	7732-18-5		
Glycerol	56-81-5	20%	No

SECTION 4: First Aid Measures

PRIMARY ROUTES OF EXPOSURE: Ingestion, dermal contact.

EYE EXPOSURE: Remove contacts if present. Immediately flush the eyes with water for at least 10-15 minutes. Seek medical attention if irritation persists.

SKIN EXPOSURE: Wash the affected area with soap and water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: If breathed in, move person to fresh air. If not breathing, give artificial respiration.

INGESTION: If the person is conscious, rinse their mouth out with water. Never give anything by mouth to an unconscious person.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: Treat symptomatically

SECTION 5: Fire Fighting Measures

EXTINGUSHING MEDIUM: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self contained breathing apparatus for fire fighting if necessary.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: No known products

UNUSUAL FIRE OR EXPLOSION HAZARDS: No known factors

SECTION 6: Accidental Release Measures

GENERAL PROTECTION: See Section 8 for personal protection. Avoid ingestion.

ENVIRONMENTAL PRECAUTIONS: None in particular

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP: Small spills can be swept up or diluted flushed with water to dilute according to local, state, and federal disposal guidelines. Solid surface should be wiped with a detergent-based cleaner to clean any remaining materials.

SECTION 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Handle in accordance with good lab practice

RECOMMENDED STORAGE: Closed container stored at -80˚C. Avoid freeze/thaw cycles.

SECTION 8: Exposure Controls and Personal Protection

CONTROL PARAMETERS:

EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS: Showers and eyewash stations

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: Wear safety glasses with side shields, or wear goggles.

SKIN PROTECTION: Wear suitable protective clothing and gloves.

RESPIRATOR: Not applicable

ADDITIONAL PROTECTION: No additional protection required.

SECTION 9: Physical and Chemical Properties

FORM:	
APPEARANCE/COLOR:	Clear liquid
UPPER/LOWER FLAMMABILITY LIMIT:	No data available.
ODOR:	Odorless
VAPOR PRESSURE:	No data available.
ODOR THRESHOLD:	No data available.
VAPOR DENSITY:	No data available.
pH:	Not applicable
MELTING/FREEZING POINT (°C):	Approx. 0°C
SOLUBILITY:	Soluble in water.
BOILING POINT (°C):	Approx. 100°C
FLASH POINT (°C):	Not applicable.
EVAPORATION RATE:	No data available.
FLAMMABILITY:	No data available.
PARTITION COEFFICIENT:	No data available.
AUTO-IGNITION TEMPERATURE (°C):	No data available.
DECOMPOSITION TEMPERATURE (°C):	No data available.
MOLECULAR WEIGHT:	No data available.
VISCOSITY:	No data available.
SPECIFIC GRAVITY:	No data available.

SECTION 10: Stability and Reactivity

REACTIVITY: No data available.

CHEMICAL STABILITY: Stable under recommended storage conditions.

OTHER:

POSSIBILITY OF HAZARDOUS REACTIONS: No data available.

CONDITIONS TO AVOID: No data available.

MATERIALS TO AVOID: No data available.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal use conditions

SECTION 11: Toxicological Information

SKIN CORROSION/IRRITATION:	No data available.
SERIOUS EYE DAMAGE/IRRITATION	No data available.
RESPIRATORY OR SKIN SENSITIZATION	No data available.
GERM CELL MUTAGENICITY	No data available.

CARCINOGENICITY

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

REPRODUCTIVE TOXICITY:	No data available
TERATOGENICITY:	No data available
SPECIFIC TARGET ORGAN TOXICITY	No data available
ASPIRATION HAZARD	No data available

POTENTIAL HEALTH EFFECTS

Inhalation:	No known effect.
Ingestion:	No known effect.
Skin:	No known effect.
Eyes:	No known effect.
SIGNS AND SYMPTOMS OF EXPOSURE:	No data available.
SYNERGISTIC EFFECTS:	No data available.
ADDITIONAL INFORMATION:	Not applicable.

SECTION 12: Ecological Information

AbNano™ VHH Library Stock

AQUATIC/TERRESTRIAL ORGANISM TOXICITY:	Sodium chloride may present unknown hazards to the aquatic environment.
ASPIRATION HAZARD	No data available.
PERSISTANCE AND DEGRADABILITY:	No data available.
BIOACCUMULATIVE POTENTIAL:	No data available.
MOBILITY IN SOIL	Sodium azide is soluble in water and may migrate through soil and contaminate groundwater.
PBT AND vPvB ASSESSMENT:	No data available.
OTHER ADVERSE EFFECTS:	No data available.

SECTION 13: Disposal Considerations

DISPOSAL: Dispose of according to local, state and federal regulations. Do not pour down the drain.

SECTION 14: Transportation Information

DOT: Not regulated

SECTION 15: Regulatory Information

OSHA HAZARDS:	This product is not classified as hazardous under OSHA regulations.
DSL STATUS:	
TSCA 8(b) inventory:	All ingredients are listed on or exempt from the U.S. Toxic Substances Control Act (TSCA) inventory.
SARA 302 COMPONENTS:	This product does not contain any components subject to the reporting requirements of SARA Section 302**.**
SARA 313 COMPONENTS:	This product does not contain any substances listed under SARA Section 313 at reportable thresholds.
SARA 311/312 HAZARDS:	No chronic health or physical hazards identified.

CA PROP 65 COMPONENTS: This product does not contain any chemicals known to the State of CA to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 Other Information

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