# SAFETY DATA SHEET

Preparation Date: 11/12/2026
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## SECTION 1: Identification

# AbNano™ VHH Naïve FLEX Library

**Catalog Number:** L750-FL00

**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

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Bethyl Laboratories, a part of Fortis Life Sciences, makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.