

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** AVIPure® Affinity Resins in Benzyl Alcohol Solution (Aqueous)

### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** For research use only. Not for use in diagnostics procedures

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Repligen Corporation

16 Cavendish Ct, Suite 151

Lebanon, NH 03766

USA

+1 603-965-2100

[customerserviceUS@repligen.com](mailto:customerserviceUS@repligen.com)

### 1.4. Emergency Telephone Number

**Emergency Number**

: VelocityEHS

(800)255-3924 (North America)

+1 (813)248-0585 (International)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### GHS-US Classification

Not classified

### 2.2. Label Elements

#### GHS-US Labeling

No labeling applicable according to 29 CFR 1910.1200.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name           | Synonyms                                                                                                                                                | Product Identifier | %       | GHS US classification                                                                                                                        |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Benzyl alcohol | Benzenecarbinol / Benzenemethanol / Methanol, phenyl- / Phenylmethanol / Phenylmethyl alcohol / BENZYL ALCOHOL / .alpha.-Hydroxytoluene / Benzylalcohol | (CAS-No.) 100-51-6 | 0.1 – 1 | Flam. Liq. 4, H227<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Eye Irrit. 2A, H319<br>Aquatic Acute 2, H401 |

Full text of H-phrases: see section 16

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

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**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

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### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.  
**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.  
**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

For research use only. Not for use in diagnostics procedures

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

| Benzyl alcohol (100-51-6) |                |        |
|---------------------------|----------------|--------|
| USA AIHA                  | WEEL TWA [ppm] | 10 ppm |

### 8.2. Exposure Controls

|                                   |                                                                                                                                                                                                                                                              |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate Engineering Controls  | : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.                                             |
| Personal Protective Equipment     | : Gloves. Protective clothing. Protective goggles.                                                                                                                                                                                                           |
|                                   |                                                                                                                                                                            |
| Materials for Protective Clothing | : Chemically resistant materials and fabrics.                                                                                                                                                                                                                |
| Hand Protection                   | : Wear protective gloves.                                                                                                                                                                                                                                    |
| Eye and Face Protection           | : Chemical safety goggles.                                                                                                                                                                                                                                   |
| Skin and Body Protection          | : Wear suitable protective clothing.                                                                                                                                                                                                                         |
| Respiratory Protection            | : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection. |
| Other Information                 | : When using, do not eat, drink or smoke.                                                                                                                                                                                                                    |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|                                        |                     |
|----------------------------------------|---------------------|
| Physical State                         | : Liquid            |
| Appearance                             | : Liquid            |
| Odor                                   | : No data available |
| Odor Threshold                         | : No data available |
| pH                                     | : No data available |
| Evaporation Rate                       | : No data available |
| Melting Point                          | : No data available |
| Freezing Point                         | : No data available |
| Boiling Point                          | : No data available |
| Flash Point                            | : No data available |
| Auto-ignition Temperature              | : No data available |
| Decomposition Temperature              | : No data available |
| Flammability (solid, gas)              | : Not applicable    |
| Vapor Pressure                         | : No data available |
| Relative Vapor Density at 20°C         | : No data available |
| Relative Density                       | : No data available |
| Solubility                             | : No data available |
| Partition Coefficient: N-Octanol/Water | : No data available |
| Viscosity                              | : No data available |

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### 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products

None expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

**Acute Toxicity (Oral):** Not classified (Based on available data, the classification criteria are not met)

**Acute Toxicity (Dermal):** Not classified (Based on available data, the classification criteria are not met)

**Acute Toxicity (Inhalation):** Not classified (Based on available data, the classification criteria are not met)

| Benzyl alcohol (100-51-6) |                 |
|---------------------------|-----------------|
| LD50 Oral Rat             | 1230 mg/kg      |
| LD50 Dermal Rabbit        | > 2000 mg/kg    |
| LC50 Inhalation Rat       | > 4.178 mg/l/4h |
| ATE (Dust/Mist)           | 1.50 mg/l/4h    |

**Skin Corrosion/Irritation:** Not classified (Based on available data, the classification criteria are not met)

**Serious Eye Damage/Irritation:** Not classified (Based on available data, the classification criteria are not met)

**Respiratory or Skin Sensitization:** Not classified (Based on available data, the classification criteria are not met)

**Germ Cell Mutagenicity:** Not classified (Based on available data, the classification criteria are not met)

**Carcinogenicity:** Not classified (Based on available data, the classification criteria are not met)

**Reproductive Toxicity:** Not classified (Based on available data, the classification criteria are not met)

**Specific Target Organ Toxicity (Single Exposure):** Not classified (Based on available data, the classification criteria are not met)

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified (Based on available data, the classification criteria are not met)

**Aspiration Hazard:** Not classified (Based on available data, the classification criteria are not met)

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Not classified.

| Benzyl alcohol (100-51-6) |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| LC50 Fish 1               | 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| LC50 Fish 2               | 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])  |
| NOEC Chronic Crustacea    | 51 mg/l                                                                |

### 12.2. Persistence and Degradability

| AVIPure® - AAV Affinity Resins |                  |
|--------------------------------|------------------|
| Persistence and Degradability  | Not established. |

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### 12.3. Bioaccumulative Potential

|                                                 |                  |
|-------------------------------------------------|------------------|
| AVIPure® - AAV Affinity Resins                  |                  |
| Bioaccumulative Potential                       | Not established. |
| Benzyl alcohol (100-51-6)                       |                  |
| Partition coefficient n-octanol/water (Log Pow) | 1.1              |

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Ecology - Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

Not regulated for transport

### 14.2. In Accordance with IMDG

Not regulated for transport

### 14.3. In Accordance with IATA

Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

|                                                                                            |  |
|--------------------------------------------------------------------------------------------|--|
| Benzyl alcohol (100-51-6)                                                                  |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active |  |

### 15.2. US State Regulations

|                                                |  |
|------------------------------------------------|--|
| Benzyl alcohol (100-51-6)                      |  |
| U.S. - Pennsylvania - RTK (Right to Know) List |  |
| U.S. - Massachusetts - Right To Know List      |  |

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

|                                        |                                                                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Date of Preparation or Latest Revision | : 01/12/2022                                                                                                                         |
| Other Information                      | : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 |

### GHS Full Text Phrases:

|                                     |                                                                |
|-------------------------------------|----------------------------------------------------------------|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4               |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral) Category 4                               |
| Aquatic Acute 2                     | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Comb. Dust                          | Combustible Dust                                               |
| Eye Irrit. 2A                       | Serious eye damage/eye irritation Category 2A                  |
| Flam. Liq. 4                        | Flammable liquids Category 4                                   |
| H227                                | Combustible liquid                                             |
| H302                                | Harmful if swallowed                                           |
| H319                                | Causes serious eye irritation                                  |
| H332                                | Harmful if inhaled                                             |
| H401                                | Toxic to aquatic life                                          |

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)