

## SAFETY DATA SHEET (SDS) CRYO-free™ (2.5% or 5% DMSO)

SDS date: 07-08-2026

### SECTION 1: COMPANY AND PRODUCT IDENTIFICATION / INFORMATION

**PRODUCT NAME:** CRYO-free™ 25 mLs; with 5 or 2.5% (vol./vol.) Dimethyl Sulfoxide (DMSO)  
**SYNONYMS:** None  
**PRODUCT CODES:** AVBP-0717 (5% DMSO) or AVBP-0718 (2.5% DMSO)  
**PRODUCT USE:** Liquid medium for the low to ultra low temperature (e.g. -76.8 °C to -196 °C) cryopreservation and storage of biological material (e.g., animal cells or tissue).

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### SECTION 2: INFORMATION OF ANY KNOWN HAZARDOUS INGREDIENTS

**INGREDIENT:** Contains Dimethyl Sulfoxide (DMSO) at 2.5 or 5% final concentration (vol./vol.), in an aqueous physiological-buffered saline solution. DMSO CAS NO: 67-68-5. MF: C<sub>2</sub>H<sub>6</sub>OS. For further information refer to a DMSO MSDS, such as that provided by Sigma-Aldrich, for product. Cat. No. D1435-500ML

### SECTION 3: HAZARDS IDENTIFICATION

**HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0**

CRYO-free™ contains no substances, which, at the formulated concentrations, have been shown to be hazardous to health. Handle in accordance with good industrial hygiene and safety practice and environmental exposure regulations.

|                                    |                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>ENGINEERING CONSIDERATIONS:</b> | Ensure adequate ventilation, especially in confined areas                                             |
| <b>RESPIRATORY PROTECTION:</b>     | In case of insufficient ventilation wear suitable respiratory equipment                               |
| <b>HAND PROTECTION:</b>            | Protective gloves                                                                                     |
| <b>EYE PROTECTION:</b>             | Safety glasses with side-shields                                                                      |
| <b>SKIN AND BODY PROTECTION:</b>   | Lightweight protective clothing                                                                       |
| <b>EXPOSURE LIMITS:</b>            | Not known                                                                                             |
| <b>CARCINOGENICITY:</b>            | Not known. Components of CRYO-FREE™ are not known to be carcinogenic at the formulated concentrations |

### SECTION 4: FIRST AID MEASURES

**EYES:** Rinse eyes thoroughly with water and promptly seek medical advice and care.  
**SKIN:** Wash with soap and water, rinse with water and promptly seek medical advice and care.  
**INGESTION:** Rinse mouth with water and promptly seek medical advice and care.  
**INHALATION:** Move exposed individual to well ventilated, uncontaminated area and promptly seek medical advice and care.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** CRYO-free™ contains 5 or 2.5% DMSO (vol./vol.). Treat exposed individual both symptomatically and accordingly.

### SECTION 5: FIRE-FIGHTING INFORMATION

**FLAMMABILITY:** CRYO-free™ is non-flammable and non-explosive. Use standard fire-fighting measures such as water, carbon dioxide (CO<sub>2</sub>). Foam dry powder or alcohol-resistant foams.

### SECTION 6: ACCIDENTAL RELEASE INFORMATION

**ACCIDENTAL RELEASE AND CLEANUP:** General non-hazardous chemical spill clean up measures should be employed. Use appropriate protocols and protective equipment during cleanup. Soak up spill with absorbent material.

**SECTION 7: HANDLING AND STORAGE HANDLING:** Use standard caution and safety measures as well as good laboratory practices when using CRYO-free™. Wear appropriate protective laboratory clothing and equipment. Avoid ingestion, contact with skin or eyes, or inhalation of vapors or aerosols. Wash thoroughly after handling.

**STORAGE:** Store between 2–8 °C in the dark. Store in accordance with federal, state, and local law and regulations. Do not smoke, consume food or beverages in areas where you are using CRYO-free™. Do not freeze (i.e. less than 0 °C

## **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION INFORMATION**

**INDUSTRIAL HYGIENE:** Handle in accordance with good industrial hygiene and safety practice and environmental exposure controls.

**ENGINEERING CONSIDERATIONS:** Ensure adequate ventilation, especially in confined areas

**RESPIRATORY PROTECTION:** In case of insufficient ventilation wear suitable respiratory equipment

**HAND PROTECTION:** Protective gloves

**EYE PROTECTION:** Safety glasses with side-shields

**SKIN AND BODY PROTECTION:** Lightweight protective clothing

**EXPOSURE LIMITS:** Not known

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

**APPEARANCE:** Clear, faint-yellow viscous liquid

**ODOR:** Faint odor of sulfur

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** Approx. 7.4

**BOILING POINT:** Not known

**MELTING POINT:** Not known

**FREEZING POINT:** Not known

**SOLUBILITY IN WATER:** Soluble in water

**PERCENT SOLIDS BY WEIGHT:** NA

**PERCENT VOLATILE:** Not known

**VOLATILE ORGANIC COMPOUNDS:** None

**VAPOR PRESSURE:** Not known

**VAPOR DENSITY:** Not known

**SPECIFIC GRAVITY:** Approx. 1.5

**EVAPORATION RATE:** Not known

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

**POLYMERIZATION HAZARD:** NA

**STABILITY:** Stable and not known to be reactive. However, storage and use of product at increased temperatures greater than 25°C or near ignition sources is not recommended.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Avoid contact with strong acids or bases, reducing agents or oxidizing agents.

**POTENTIAL HAZARDOUS DECOMPOSITION PRODUCTS:** Sulfur oxides, carbon dioxide, and carbon monoxide

## **SECTION 11: TRANSPORT AND SHIPPING INFORMATION**

**U.S. D.O.T. SHIPPING NAME:** CRYO-free™

**D.O.T. HAZARD CLASS:** NA. CRYO-free™, as formulated, is not known to represent a transportation hazard.

## **SECTION 12: MISCELLANEOUS INFORMATION AND DISCLAIMER**

The information included in this MSDS is specifically-related to CRYO-free™ only, and is not relevant to CRYO-free™ that is utilized in any downstream non-recommended processes or the non-recommended use of CRYO-free™ with other materials or substances. This information included in this MSDS is, to the best of our knowledge, accurate. However, AvantBio Corporation claims no warranty or assurances regarding the accuracy of this MSDS, and assumes no liability from its use. Recipients of CRYO-free™ should make their own determinations herein. regarding the accuracy and use of the information contained herein.

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