BioLife Solutions®
BIOPRESERVATION TOOLS FOR CELLS, TISSUES, AND ORGANS

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SAFETY DATA SHEET

Product Name: CryoStor® CS2 SDS Date: 04 November 2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	CryoStor® CS2
Synonyms:	CryoStor, CS2
Product Codes:	202102
Manufacturer:	BioLife Solutions, Inc.
Address:	3303 Monte Villa Pkwy, Suite 310, Bothell, WA 98021 USA
Emergency Phone:	Call local poison control center. In USA 1-800-222-1222.
Other Calls:	866.424.6543
Fax:	425.402.1433
Product Use:	Ultra low temperature (-70° to -196°C) storage of biological material (cells, tissues and organs)

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:	None	
GHS Label:	Pictogram:	NA
	Signal Word:	NA
	Precautionary Statements:	NA
Response:	If on Skin: Wash with plenty of soap and water.	
	If in Eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. If eye irritation persists, get medical attention.	
	If on Clothes: Take off contaminated clothing and wash before reuse.	
Storage:	Protect from light during storage at 2-8°C.	
Disposal:	Dispose of contents/container in accordance with local/national regulations.	
Hazard not otherwise classified (HNOC) or not covered by GHS:	NA	
Physical Appearance:	Clear liquid	
Routes of Entry:	Oral, Skin, Eyes	
Odor:	Essentially Odorless	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient:	Dimethyl Sulfoxide (DMSO)		
	CAS NO: 67-68-5	MF: C2H6OS	%Vol: 2% (v/v)
Note:	For further information refer to DMSO MSDS – Gaylord Chemical (DMSO-USP/PhEur).		
	All other ingredients in the proportions used are considered non-hazardous by regulating bodies worldwide.		

SECTION 4: FIRST AID MEASURES

Eyes:	Flush with running water for >10 minutes
Skin:	Wash skin thoroughly with soap and water. Wash contaminated clothing before reuse.
Ingestion:	If swallowed, give two glasses of water and induce vomiting. Never give anything to an unconscious person. Call a physician.
Inhalation:	NA
Physician/First Aid Provider Notes:	CryoStor is intended for ultralow temperature preservation of cells, tissues, and organs.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media:	Use any suitable media for extinguishing material supporting the fire
Special Fire Fighting Procedures:	Standard measures apply
Unusual Fire & Explosion Hazards:	Not a fire or explosion hazard
Flammability:	Non-flammable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear appropriate PPE (see Section 8).
Spills:	Standard non-hazardous chemical spill clean-up measures apply.
Disposal:	Dispose of contents/container in accordance with local/national regulations.

SECTION 7: HANDLING AND STORAGE

Handling:	Use good laboratory practices while handling. Avoid inhaling vapors or mist. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.
Storage:	Protect from light during storage at 2-8°C. Store in accordance with federal, state, and local regulations. Do not consume food, drink, or tobacco in areas where they may become contaminated with this material.
Engineering Controls:	NA

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	NA
Ventilation:	NA
Respiratory Protection:	This material does not have established workplace exposure limits. Wear an appropriate NIOSH/MSHA approved air purifying respirator or positive pressure air supplied respirator in situations where a respirator is judged appropriate to prevent inhalation of vapors or mist.
Eye Protection:	Chemical laboratory safety goggles or as recommended by internal laboratory.
Skin Protection:	Latex/Non-Latex gloves or as recommended by internal laboratory.
Other Protective Clothing Or Equipment:	Wear impervious clothing such as apron, boots, jumpsuit, or whole body suit as appropriate to avoid exposure.
Work Hygienic Practices:	Use good laboratory precautions and practices. Wash hands following handling of material.
Exposure Guidelines:	Wash exposed area thoroughly. Refer to Section 4 First Aid Measures for details.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid Upper	Flammability Limit:	Unknown
Odor:	Odorless	Lower Flammability Limit:	Unknown
Odor Threshold:	NA	Vapor Pressure:	Unknown
pH:	7.5 to 7.7	Vapor Density (Air=1):	Unknown
Melting Point:	0°C	Specific Gravity (Water=1):	1.05 at Room Temp.
Freezing Point:	-4°C	Solubility in Water:	Soluble
Boiling Point:	Unknown	Octanol/Water Partition Coefficient:	Unknown
Flash Point:	Unknown	Auto Ignition Temperature:	Unknown
Evaporation Rate:	Unknown	Decomposition Temperature:	Unknown
Flammability:	NA	Viscosity:	Unknown

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	NA
Stability:	Stable
Conditions to Avoid (Stability):	Storage and use of product at elevated temperatures >22°C
Incompatibility (Material to Avoid):	Acid chlorides, phosphorous halides, strong acids, strong oxidizing agents, strong reducing agents
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, sulfur oxides
Hazardous Polymerization:	NA

SECTION 11: TOXICOLOGICAL INFORMATION

No data available

SECTION 12: ECOLOGICAL INFORMATION

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Disposal with non-hazardous materials. Observe all federal, state, and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

US Department of Transportation:	Proper Shipping Name: CryoStor®	Hazard Class:	NA

SECTION 15: REGULATORY INFORMATION

No data available

SECTION 16: OTHER INFORMATION

Other Information:	The data on this Safety Data Sheet relate only to the specific material herein and do not relate to use in combination with any other material or process.
Preparation Information:	This information is believed to be accurate and represents the best information available to date.
Disclaimer:	We make no warranty or assume any liability from its use. Users should make their own investigations to determine the suitability of the information.