Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).



SECTION 1: IDENTIFICATION

1.1 **Product Identifier**

Product Form: Mixture Product Name: BloodStor 55-5 NaCl, BS 55-5 NaCl

1.2. Intended Use of the Product

Ultra-low temperature, storage of biological material.

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

Company BioLife Solutions, Inc. 3303 Monte Villa Parkway Suite 310 Bothell, WA 98021 425-402-1400 www.biolifesolutions.com

1.4. Emergency Telephone Number

Emergency Number: 425-402-1400

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification Flam. Liq. 4 H227

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US/CA Labeling Signal Word (GHS-US/CA) Hazard Statements (GHS-US/CA) Precautionary Statements (GHS-US/CA)	 Warning H227 - Combustible liquid. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear protective gloves, protective clothing, and eye protection. P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish. P403 - Store in a well-ventilated place.
	P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. This product contains DMSO, DMSO easily penetrates the skin, and may increase the rate of skin absorption of skin-permeable substances.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture*

Name	Product Identifier	% **	GHS Ingredient Classification
Dimethyl sulfoxide	(CAS-No.) 67-68-5	55	Flam. Liq. 4, H227
Water	(CAS-No.) 7732-18-5	39	Not classified
Dextran	(CAS-No.) 9004-54-0	5	Comb. Dust
Sodium chloride	(CAS-No.) 7647-14-5	1	Not classified

Full text of H-phrases: see section 16

* Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

4.1. Description of 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).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists. **Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use. DMSO may enhance the rate of skin absorption of skin-permeable substances.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals. DMSO easily penetrates the skin. DMSO may enhance the rate of skin absorption of skin-permeable substances.

Eye Contact: May cause slight irritation to eyes.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

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.

BIOLIFE

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SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising from the Substance or Mixture

Fire Hazard: Combustible liquid.

Explosion Hazard: May form flammable or explosive vapor-air mixture. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

Reactivity: Material is hygroscopic. Reacts violently with strong oxidizers. Increased risk of fire or explosion. Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

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. Remove containers from fire area if this can be done without risk. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not breathe fumes from fires or vapors from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Irritating or toxic vapors. Carbon oxides (CO, CO₂). Sulfur oxides. Methylmercaptan. Dimethyl sulfide. Sodium oxides. Hydrogen chloride. Formaldehyde. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

Other Information: Exposure to fire may cause containers to rupture/explode.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures General Measures:

Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE). **Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. 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.

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. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. Contact competent authorities after a spill.

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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

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. This product contains DMSO. DMSO increases the skin absorption of substances with it, and thereby their toxic effect may be greater than that of the substances alone. Care should be taken if working with DMSO and any other hazardous materials as they may be absorbed more readily by the skin.

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, and spray. Take precautionary measures against static discharge. Use only non-sparking tools. Use appropriate personal protective equipment (PPE). **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Store contents under inert gas. **Storage Conditions:** Store in a dry, cool and well-ventilated place. Hygroscopic. Store in glovebox, dry box or desiccator located in exhausted environment. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep in fireproof place. Keep only in original container.

Incompatible Materials: Strong acids, strong bases, strong oxidizers. Strong reducing agents. Halogenated organic and mineral acids. Methylbromide. Sodium hydride. Halides. Metal salts of oxoacids. Metal salts. Zinc. Steel. Some plastics. Acid chlorides. Boron compounds. Water reactive materials.

Storage Temperature: 2 - 8 °C

7.3. Specific End Use(s)

Ultra-low temp, storage of biological material.

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), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Dimethyl sulfoxide (67-68-5)

USA AIHA WEEL TWA (ppm)	250 ppm
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8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure all national/local regulations are observed.

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Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing. **Hand Protection:** Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: In laboratory, medical or industrial settings, impervious disposable gloves and protective clothing are recommended if skin contact with the product is possible.

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

AppearanceClear/colorlessOdorOdorlessOdor ThresholdNot availablepHNot availableEvaporation RateNot availableMelting PointNot availableFreezing PointNot availableBoiling PointNot availableBoiling PointNot availableFlash PointNot availableAuto-ignition TemperatureNot availableDecomposition TemperatureNot availableFlammability (solid, gas)Not availableUpper Flammable LimitNot availableVapor PressureNot availableRelative Vapor Density at 20°CNot availableSpecific Gravity1.09SolublitySoluble in waterPartition Coefficient: N-Octanol/WaterNot availableViscosityNot available	Physical State	Liquid
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Partition Coefficient: N-Octanol/Water Not available	Specific Gravity	1.09
	Solubility	Soluble in water
Viscosity Not available	Partition Coefficient: N-Octanol/Water	Not available
	Viscosity	Not available

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Material is hygroscopic. Reacts violently with strong oxidizers. Increased risk of fire or explosion. Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

10.2. Chemical Stability: Combustible liquid. May form flammable or explosive vapor-air mixture.

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers. Strong reducing agents. Halogenated organic and mineral acids. Methylbromide. Sodium hydride. Halides. Metal salts of oxoacids. Metal salts. Zinc. Steel. Some plastics. Acid chlorides. Boron compounds. Water reactive materials.

10.6. Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified Acute Toxicity (Dermal): Not classified Acute Toxicity (Inhalation): Not classified LD50 and LC50 Data: Not available Skin Corrosion/Irritation: Not classified. Eye Damage/Irritation: Not classified. Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified Carcinogenicity: Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified Reproductive Toxicity: Not classified Specific Target Organ Toxicity (Single Exposure): Not classified Aspiration Hazard: Not classified Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation. Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals. DMSO easily penetrates the skin. DMSO may enhance the rate of skin absorption of skin-permeable substances. Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects. Chronic Symptoms: None known.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Dextran (9004-54-0)		
LD50 Oral Rat	> 3 g/kg	
Dimethyl sulfoxide (67-68-5)		
LD50 Oral Rat	> 20000 mg/kg	
LD50 Dermal Rat	≈ 40000 mg/kg	
LC50 Inhalation Rat	> 5.33 mg/l/4h	
Sodium chloride (7647-14-5)		
LD50 Oral Rat	3 g/kg	
LD50 Dermal Rabbit	> 10000 mg/kg (Species: New Zealand White)	
LC50 Inhalation Rat	> 42 g/m³ (Exposure time: 1 h)	



Effective Date: 12JUL2019



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SOLUTIONS

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Dimethyl sulfoxide (67-68-5)

LC50 Fish 1	34 g/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 Fish 2	33 - 37 g/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

Sodium chloride (7647-14-5)

LC50 Fish 1	5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Fish	252 mg/l (Species: Pimephales promelas)

12.2. Persistence and Degradability

B3 55-5 Naci	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

BS 55-5 NaCl

DO EE E NoCI

Bioaccumulative Potential	Not established.
Dimethyl sulfoxide (67-68-5)	
Log Pow	-2.03
Sodium chloride (7647-14-5)	
BCF Fish 1	(no bioaccumulation)

12.4. Mobility in Soil Not 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, territorial, provincial, and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology - Waste Materials: Avoid release to the environment.

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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

Proper Shipping Name	:COMBUSTIBLE LIQUID, N.O.S. (Dimethyl sulfoxide)
Identification Number	:NA1993
Packing Group.	: 111
ERG Number	:128
14.2. In Accordance with IME	DG Not regulated for transport
14.3. In Accordance with IAT	A Not regulated for transport
14.4. In Accordance with TD	G Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

BS 55-5 NaCl

SARA Section 311/312 Hazard Classes	Fire hazard
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control A	Act) inventory
Dextran (9004-54-0)	
Listed on the United States TSCA (Toxic Substances Control A	Act) inventory
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).
Dimethyl sulfoxide (67-68-5)	

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium chloride (7647-14-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State Regulations

Dimethyl sulfoxide (67-68-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

15.3. Canadian Regulations

Water (7732-18-5)

Listed on the Canadian DSL	(Domestic Substances List)

Dextran (9004-54-0)

Listed on the Canadian DSL (Domestic Substances List)

Dimethyl sulfoxide (67-68-5)

Listed on the Canadian DSL (Domestic Substances List)

Sodium chloride (7647-14-5)

Listed on the Canadian DSL (Domestic Substances List)



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SECTION 16: OTHER INFORMATION

	Other Information	 This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.
GHS Full Text Phrases:		
	Comb. Dust	Combustible Dust
	Flam. Liq. 4	Flammable liquids Category 4
	H227	Combustible liquid

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. NA GHS SDS 2015 (Can, US, Mex)