

SAFETY DATA SHEET

SDS DATE: February 03, 2022

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BMP-2 Polyclonal Antibody
PRODUCT CODES: Cat# 5672-30T, -100
RESTRICTIONS ON USE: For laboratory research purposes. Not for drug or household use.
MANUFACTURER: BioVision, Inc.
ADDRESS: 155 S. Milpitas Blvd. Milpitas, CA 95035
EMERGENCY PHONE: 858-373-8066
OTHER CALLS: 408-493-1800
FAX PHONE: 408-493-1801
EMAIL: sds@biovision.com

SECTION 2: HAZARDS IDENTIFICATION

Component	Description	Amount	Safety Information
BMP-2 Polyclonal Antibody	Colorless liquid (contains BSA & Glycerol)	5672-30T: 30 µg (Trial size) 5672-100: 100 µg	See below

Bovine Serum Albumin (BSA):

Emergency Overview:

GHS Classification: Acute Toxicity; Oral, Category 4

GHS Label elements, including precautionary statements



Pictogram:

Signal word:

Warning

Hazard statement(s):

H302: Harmful if swallowed.

Precautionary statement(s):

P264: Wash {hands} thoroughly after handling.
P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330: Rinse mouth.

Adverse Human Health:

Harmful if swallowed.

Effects and Symptoms:

Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation or skin absorption.
May cause eye, skin, or respiratory system irritation.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated

HMIS Classification

Health hazard: 1

Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 1

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful by inhalation. Material may be irritating to the mucous membranes and upper respiratory tract.

Skin: Harmful if absorbed through skin. May cause skin irritation.

Eyes: Cause eye irritation.

Ingestion: Harmful if swallowed

Glycerol:

Emergency Overview

OSHA Hazards: Irritant

Target Organs: Eyes, Skin

GHS Classification: Not available

GHS Label elements, including precautionary statements



Pictogram:

Signal word:

Warning

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Hazard statement(s): Not available

Precautionary statement(s): none

HMIS Classification

Health hazard: 1

Chronic Health Hazard: 0

Flammability: 1

Physical hazards: 0

NFPA Rating

Health hazard: 1

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: Low hazard for usual industrial handling. Inhalation of a mist of this material may cause respiratory tract irritation.

Skin: May cause skin irritation. Low hazard for usual industrial handling

Eyes: May cause eye irritation.

Ingestion: Ingestion of large amounts may cause gastrointestinal irritation. Low hazard for usual industrial handling. May cause headache.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	EC-No.	Molecular Weight	Chemical Formula	Concentration
BSA	9048-46-8	232-936-2	--	--	≤0.5%
Glycerol	56-81-5	200-289-5	92.09	C ₃ H ₈ O ₃	≤30%

SECTION 4: FIRST AID MEASURES

If inhaled: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In case of skin contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In case of eye contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

If swallowed: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. DO NOT induce vomiting unless directed to do so by medical personnel.

SECTION 5: FIRE-FIGHTING MEASURES

Bovine Serum Albumin (BSA):

Suitable extinguishing media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

Unsuitable extinguishing media: A solid water stream may be inefficient.

Special protective equipment for fire fighters: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Further information: No data available

Glycerol:

Suitable extinguishing media: Use water spray to cool fire-exposed containers. Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Special hazards arising from the substance or mixture: Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters: Wear protective eyewear, gloves, and clothing.

Further information: Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Ensure that air-handling systems are operational. Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

Methods and materials for containment and cleaning up: Wear protective eyewear, gloves, and clothing. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged or repeated exposure.

Conditions for safe storage: Keep container tightly closed. Store in accordance with information listed on the product insert.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Bovine Serum Albumin (BSA):

Exposure Controls:

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CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
9048-46-8	Bovine Serum Albumin (BSA)	No data	No data	No data
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other limits
9048-46-8	Bovine Serum Albumin (BSA)	No data	No data	No data

Glycerol:

Personal protective equipment:

Eye protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to minimize contact with skin.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	BSA	Glycerol
Appearance:	A dry powder	Clear viscous liquid
pH:	No data available	5.5 -8
Water Solubility:	No data available	Miscible
Other Solubility:	No data available	No data available
Boiling Point (°C)	No data available	290 °C (554.00°F)
Melting Point (°C)	No data available	17.8 °C (19.94°F)
Flash Point (°C)	No data available	160 °C
Ignition Temp. (°C)	No data available	No data available
Density:	No data available	No data available

SECTION 10: STABILITY AND REACTIVITY

Property	BSA	Glycerol
Chemical Stability:	Stable under recommended storage conditions	
Conditions to Avoid:	No data available	Incompatible materials, ignition sources, excess heat
Materials to Avoid:	No data available	Not available
Hazardous decomposition: products:	No data available	Carbon monoxide, carbon monoxide, carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Bovine Serum Albumin (BSA):

The toxicological effects of this product have not been thoroughly studied

Glycerol:

Acute toxicity: LD50 Oral - rat – 12,600 mg/kg

LC50 Inhalation - rat - 570 mg/m³/1hr

Dermal – rabbit: Mild eye irritation-24 hr

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory/skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: Not listed as a carcinogen(ACGIH, IARC, NTP)

Reproductive toxicity: No data available

Mutagenicity: No data available

SECTION 12: ECOLOGICAL INFORMATION

Bovine Serum Albumin (BSA):

Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Persistence and degradability: No data available

Toxicity: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Glycerol:

Persistence and degradability: Easily biodegradable

Toxicity: No data available

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Bioaccumulative potential: Not bioaccumulative

Mobility in soil: Aqueous solution has high mobility in soil.

PBT and vPvB assessment: no data available

Other adverse effects: no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Bovine Serum Albumin (BSA):

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations

Glycerol:

Product: Dispose of in a manner consistent with federal, state, and local regulations.

Storage: No data available

SECTION 14: TRANSPORT INFORMATION

Bovine Serum Albumin (BSA):

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Glycerol:

DOT (US): Not dangerous goods

IMDG: Not dangerous goods.

IATA: Not dangerous goods

SECTION 15: REGULATORY INFORMATION

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Glycerol: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components: Glycerol, CAS-No. 56-81-5; Revision Date: 2007-03-01

Pennsylvania Right To Know Components: Glycerol, CAS-No. 56-81-5; Revision Date: 2007-03-01

New Jersey Right To Know Components: Glycerol, CAS-No. 56-81-5; Revision Date: 2007-03-01

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

EU regulations

Component	Risk Phrases	Safety Phrases
BSA	R22	S36/37/39
Glycerol	R36/38	S36/37/39

SECTION 16: OTHER INFORMATION:

OTHER INFORMATION:

PREPARATION INFORMATION:

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.