

# SAFETY DATA SHEET

SDS DATE: November 30, 2020



## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Annexin V-FITC Reagent

**PRODUCT CODES:** Cat# 1001-200, 1000

**RESTRICTIONS ON USE:** For laboratory research purposes. Not for drug or household use.

**MANUFACTURER:** BioVision, Inc.

**ADDRESS:** 155 S. Milpitas Boulevard, Milpitas, CA 95035

**EMERGENCY PHONE:** 858-373-8066

**OTHER CALLS:** 408-493-1800

**FAX PHONE:** 408-493-1801

## SECTION 2: HAZARDS IDENTIFICATION

Product Name/Chemical Name	Description	Volume	Safety Information
Annexin V-FITC Reagent	Contains 1 % BSA and Proclin 300	1001-200: 0.2 ml 1001-1000: 1.0 ml	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.

### Proclin 300:

#### Emergency Overview:

**GHS Classification:** Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 4), H332  
Skin corrosion (Category 1B), H314  
Serious eye damage (Category 1), H318  
Skin sensitization (Category 1), H317  
Short-term (acute) aquatic hazard (Category 2), H401  
Long-term (chronic) aquatic hazard (Category 2), H411

**GHS Label elements, including precautionary statements**



#### Pictogram:

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Signal word: Danger

Hazard statement(s): H302 + H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s): P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	EC-No.	Molecular Weight	Chemical Formula	Concentration
Bovine serum albumin (BSA)	9048-46-8	232-936-2	--	--	≤1%
Proclin 300	96118-96-6	--	--	--	<0.05%

## SECTION 4: FIRST AID MEASURES

### Bovine Serum Albumin (BSA):

**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.

### Proclin 300:

**General advice:** Consult a physician. Show this material safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed:** DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

## 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

### Proclin 300:

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride gas

**Special protective equipment for fire fighters:** Wear self-contained breathing apparatus for firefighting if necessary

**Further information:** No data available

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Bovine Serum Albumin (BSA):

**Personal precautions, Protective equipment and emergency procedures:** Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**Environmental precautions:** Take steps to avoid release into the environment, if safe to do so.

**Methods for cleaning up:** Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

### Proclin 300:

**Personal precautions, Protective equipment and emergency procedures:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods for cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## SECTION 7: HANDLING AND STORAGE

### Bovine Serum Albumin (BSA):

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

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

### Proclin 300:

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Conditions for safe storage:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Bovine Serum Albumin (BSA):

#### Exposure Controls:

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

#### Engineering controls (Ventilation etc.)

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

#### Personal protective equipment

##### Respiratory protection

NIOSH approved respirator, as conditions warrant.

##### Hand protection

Compatible chemical-resistant gloves

##### Body protection

Lab coat

##### Eye protection

Safety glasses

##### Hygiene measures

Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

Wash thoroughly after handling.

### Proclin 300:

#### Control parameters:

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

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Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	BSA	Proclin 300
Appearance and Odor:	A dry powder	Liquid
pH:	No data available	4.1 at 100 g/l
Water Solubility:	No data available	No data available
Other Solubility:	No data available	No data available
Boiling Point (°C):	No data available	189 °C 372 °F
Melting Point (°C):	No data available	-40 °C (-40 °F)
Flash Point (°C):	No data available	118 °C (244 °F) - closed cup
Ignition Temperature (°C):	No data available	No data available
Density:	No data available	No data available
Flammability (solid, gas)	No data available	No data available
Explosive limits	LEL: No data UEL: No data	No data available
Vapor pressure (vs. Air or mmHg)	No data available	No data available
Vapor Density (vs. Air = 1)	No data available	No data available
Specific Gravity (Water = 1)	No data available	No data available
Octanol/Water Partition	No data available	No data available
Decomposition Temperature	No data available	No data available
Viscosity	No data available	No data available

## SECTION 10: STABILITY AND REACTIVITY

Property	BSA	Proclin 300
Reactivity	No data available	
Chemical stability	Stable under recommended storage conditions	
Polymerization	No data available	
Conditions to avoid:	No data available	
Incompatible materials:	No data available	Strong oxidizing agents, Reducing agents, Amines, Mercaptans
Hazardous decomposition products:	No data available	Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride gas

## SECTION 11: TOXICOLOGICAL INFORMATION

### Bovine Serum Albumin (BSA):

The toxicological effects of this product have not been thoroughly studied.

### Proclin 300:

Acute toxicity: LD50 Oral - Rat - 862 mg/kg  
LD50 Dermal - Rabbit - 2,800 mg/kg  
No data available

Skin corrosion/irritation: Skin – Rabbit; Result: Corrosive

Serious eye damage/eye irritation: Eyes – rabbit; Result: Corrosive to eyes

Respiratory or skin sensitization: - Guinea pig; Result: May cause sensitization by skin contact.

Germ cell mutagenicity: no data available

### Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** no data available

**Specific target organ toxicity – single exposure (GHS):** no data available

**Specific target organ toxicity – repeated exposure (GHS):** no data available

**Aspiration hazard:** no data available

**Synergistic effects:** no data available

**Additional information:** RTECS: Not available

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## SECTION 12: ECOLOGICAL INFORMATION

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### **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

### **Proclin 300:**

**Eco toxicity:** No data available

**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:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### **Bovine Serum Albumin (BSA):**

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

### **Proclin 300:**

#### **Waste treatment methods**

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.

**Contaminated packaging:** Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

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### **Bovine Serum Albumin (BSA):**

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

### **Proclin 300:**

#### **DOT (US )**

UN number: 3265 Class: 8 Packing group: II

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Mixture of 5-Chloro-2- methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)); Reportable Quantity (RQ): Poison Inhalation Hazard: No

#### **IMDG**

UN number: 3265 Class: 8 Packing group: II EMS-No: F-A, S-B

Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture of 5- Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)) Marine pollutant : yes

#### **IATA**

UN number: 3265 Class: 8 Packing group: II

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Mixture of 5-Chloro-2- methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1))

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## SECTION 15: REGULATORY INFORMATION

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**SARA 302 Components:** SARA 302: No chemical 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 II, Section 313.

**SARA 311/312 Hazards:** No data available.

**Massachusetts Right To Know Components:** No data available.

**Pennsylvania Right To Know Components:** No data available.

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**New Jersey Right To Know Components:** No data available.

**California Prop. 65 Components:** No data available.

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## **SECTION 16: OTHER INFORMATION**

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**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.