

# SAFETY DATA SHEET

SDS DATE: May 11, 2021

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ZEB1 (Human) ELISA Kit  
**PRODUCT CODES:** Cat# E4998-100  
**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](mailto:sds@biovision.com)

## SECTION 2: HAZARDS IDENTIFICATION

Component	Description	Volume	Safety Information
Micro ELISA plate	--	8 x 12 Strips	No hazards
Standard (Lyophilized) (10 ng)	Solid	2 vials	No hazards
Sample/Standard Dilution Buffer	Liquid (Contains Proclin 300)	20 ml	See Below
Biotin-labeled Antibody	Liquid	120 µl	No hazards
Antibody Dilution Buffer	Liquid (Contains BSA and Proclin 300)	10 ml	See Below
HRP-Streptavidin Conjugate (SABC)	Liquid (Contains Proclin 300)	120 µl	See Below
SABC Dilution Buffer	Liquid (Contains Proclin 300)	10 ml	See Below
TMB Substrate Solution	Liquid	10 ml	No hazards
Stop Solution	Liquid (contains sulfuric acid)	10 ml	See Below
Wash Buffer (25X)	Liquid	30 ml	No hazards
Plate Sealers	--	5	No hazards

### 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:**

**Signal word:**

**Hazard statement(s):**

Danger

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.

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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 or 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.

## HMIS Classification

Health hazard: 3  
Chronic health hazard: \*  
Flammability: 1  
Physical hazards: 0

## NFPA Rating

Health hazard: 3  
Fire: 1  
Reactivity hazard: 0

## Potential Health Effects

**Inhalation:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Skin:** May be harmful if absorbed through skin. Causes skin burns.

**Eyes:** Causes eye burns.

**Ingestion:** May be harmful if swallowed.

**Aggravated medical condition:** May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

## 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  
Chronic Health Hazard: 0  
Flammability: 0  
Physical hazards: 0

## NFPA Rating

Health hazard: 1  
Fire: 0  
Reactivity Hazard: 0

## Potential Health Effects

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

## Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):

### Emergency Overview

**GHS Classification:** Acute toxicity, Oral (Category 5)

Skin corrosion (Category 1A)

Serious eye damage (Category 1)

Acute aquatic toxicity (Category 3)

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Chronic aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements:

Pictogram:



**Signal word:** Danger  
**Hazard statement(s):** H303 May be harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H412 Harmful to aquatic life with long lasting effects.  
**Precautionary statement(s):** P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/ physician.

## HMIS Classification

**Health hazard: 3**  
**Chronic Health Hazard: \***  
**Flammability: 0**  
**Physical hazards: 2**  
**NFPA Rating**  
**Health hazard: 3**  
**Fire: 0**  
**Reactivity Hazard: 2**  
**Special hazard: W**  
**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. Causes skin burns. Causes skin irritation.

**Eyes:** Causes eye burns. Causes severe eye burns. Causes eye irritation.

**Ingestion:** May be harmful if swallowed.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	EC-No.	Molecular Weight	Chemical Formula	Concentration
Proclin 300	96118-96-6	--	--	--	<1%
Bovine serum albumin (BSA)	9048-46-8	232-936-2	--	--	≤1%
Sulfuric acid	7664-93-9		98.079 g/mol	H <sub>2</sub> SO <sub>4</sub>	≤0.05%

## SECTION 4: FIRST AID MEASURES

### Proclin 300:

#### Description of first-aid measures

**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.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2 and/or in section 11)

**Indication of any immediate medical attention and special treatment needed:** No data available

### Bovine Serum Albumin (BSA):

**In Case of Inhalation:** 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.

**In Case of Ingestion:** 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.

### Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):

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

**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.

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



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## SECTION 5: FIRE-FIGHTING MEASURES

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### 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

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

### Bovine Serum Albumin (BSA):

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

**Unsuitable Extinguishing Media:** A solid water stream may be inefficient.

**Advice for firefighters:** 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

### Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):

**Conditions of flammability:** Not flammable or combustible.

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

**Special protective equipment for firefighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products:** Hazardous decomposition products formed under fire conditions. - Sulphur oxides.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### 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 and materials for containment and cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep insuitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

### Bovine Serum Albumin (BSA):

**Protective 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 and Material For Containment and Cleaning Up:** Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

### Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):

**Personal precautions:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

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

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## SECTION 7: HANDLING AND STORAGE

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### Proclin 300:

**Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.

**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.

### Bovine Serum Albumin (BSA):

**Handling:** Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.

**Storage:** Keep container tightly closed. Store in accordance with information listed on the product insert.

### Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):

**Handling:** Avoid inhalation of vapour or mist.

**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.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Proclin 300:

**Control parameters:**

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**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**

**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).

**Hand protection**

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.

**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 and 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.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**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 protection equipment:**

**Respiratory Protection**

NIOSH approved respirator, as conditions warrant.

**Hand Protection**

Compatible chemical-resistant gloves.

**Eye/Face Protection**

Safety glasses.

**Skin and Body Protectio**

Lab coat

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):**

**Exposure Controls:**

Components	CAS#	Value	Control Parameters	Basis
Sulfuric acid	7664-93-9	TWA	0.2 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

**Personal protective equipment:**

**Respiratory Protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purposecombination (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).

**Hand protection**

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.

**Eye 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 and 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.

**Hygiene measures**

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



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Proclin 300	BSA	H <sub>2</sub> SO <sub>4</sub>
Appearance	Liquid	A dry powder	Clear liquid
pH:	4.1 at 100 g/l	No data available	1.2 at 5 g/l
Water Solubility:	No data available	No data available	soluble
Other Solubility:	No data available	No data available	No data available
Boiling Point (°C):	189 °C 372 °F	No data available	290 °C (554 °F) - lit
Melting Point (°C):	-40 °C (-40 °F)	No data available	10.31 °C (50.56 °F)
Flash Point (°C):	118 °C (244 °F)-closed cap	No data available	Not applicable
Ignition Temperature (°C):	No data available	No data available	No data available
Density:	1.03 g/cm <sup>3</sup>	No data available	1.84 g/cm <sup>3</sup> at 25 °C (77 °F)

## SECTION 10: STABILITY AND REACTIVITY

Property	Proclin 300	BSA	H <sub>2</sub> SO <sub>4</sub>
Reactivity		No data available	
Chemical stability:	Stable under recommended storage conditions.		
Conditions to avoid:	No data available		
Materials to avoid:	No data available	No data available	Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali halides, Zinc salts, permanganates, e.g. potassium permanganate, Hydrogen peroxide, Azides, Perchlorates., Nitromethane, phosphorous, Reacts violently with:, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, Powdered metals
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride gas	No data available	Fire condition: Sulphur oxides

## SECTION 11: TOXICOLOGICAL INFORMATION

### 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.
- 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

### Bovine Serum Albumin (BSA):

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

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## Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):

### Acute toxicity

**Oral LD50:** LD50 Oral - rat - 2,140 mg/kg

**Inhalation LC50:** LC50 Inhalation - rat - 2 h - 510 mg/m<sup>3</sup>

**Dermal LD50:** no data available

**Other information on acute toxicity:** no data available

**Skin corrosion/irritation:** Skin - rabbit - Extremely corrosive and destructive to tissue.

**Serious eye damage/eye irritation:** Eyes - rabbit - Severe eye irritation

**Respiratory or skin sensitisation:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** The International Agency for Research on Cancer (IARC) has determined that occupational exposure to strong-inorganic acid mists containing sulfuric acid is carcinogenic to humans (group 1).

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.

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

### Teratogenicity

**Specific target organ toxicity - single exposure (Globally Harmonized System):** no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System):** no data available

**Aspiration hazard:** no data available

### Potential health effects:

**Inhalation:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation.

**Ingestion:** May be harmful if swallowed.

**Skin:** May be harmful if absorbed through skin. Causes skin burns. Causes skin irritation.

**Eyes:** Causes eye burns. Causes severe eye burns. Causes eye irritation.

### Signs and Symptoms of Exposure:

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects:** no data available

**Additional Information:** RTECS: WS5600000

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## SECTION 12: ECOLOGICAL INFORMATION

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### Proclin 300:

**Ecotoxicity:** No data available

**Persistence and degradability:** no data available

**Toxicity:** no data available

**Bioaccumulative 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.

### 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

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

### Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):

**Toxicity:** Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 42 mg/l - 96 h

**Persistence and degradability:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

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

Harmful to aquatic life with long lasting effects.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### Proclin 300:

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## 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.

## Bovine Serum Albumin (BSA):

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

## Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):

**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 afterburner and scrubber.

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

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## SECTION 14: TRANSPORT INFORMATION

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### 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))

### Bovine Serum Albumin (BSA):

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

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

### Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>):

#### DOT (US)

UN number: 1830 Class: 8 Packing group: II

Proper shipping name: Sulfuric acid

Reportable Quantity (RQ): 100 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

#### IMDG

UN number: 1830 Class: 8 Packing group: II EMS-No: F-A, S-B

Proper shipping name: SULPHURIC ACID

Marine pollutant: No

#### IATA

UN number: 1830 Class: 8 Packing group: II

Proper shipping name: Sulphuric acid

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## SECTION 15: REGULATORY INFORMATION

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**SARA 302 Components:** The following components are subject to reporting levels established by SARA Title III, Section 302: Sulfuric acid, CAS-No. 7664-93-9; Revision Date: 2007-07-01


**SARA 313 Components:** The following components are subject to reporting levels established by SARA Title III, Section 313: Sulfuric acid, CAS-No. 7664-93-9; Revision Date: 2007-07-01

**SARA 311/312 Hazards:** Sulfuric acid: Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components:** Sulfuric acid, CAS-No. 7664-93-9; Revision Date: 2007-07-01

**Pennsylvania Right To Know Components:** Sulfuric acid, CAS-No. 7664-93-9; Revision Date: 2007-07-01

**New Jersey Right To Know Components:** Sulfuric acid, CAS-No. 7664-93-9; Revision Date: 2007-07-01

**California Prop. 65 Components:**  WARNING: This product can expose you to chemicals including Sulfuric acid and TMB, which are known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov/](http://www.p65warnings.ca.gov/)

### EU regulations

Component	Risk Phrases	Safety Phrases
Proclin 300	R20/21/22	S36/37/39
Bovine Serum Albumin (BSA)	R22	S36/37/39



# SAFETY DATA SHEET

SDS DATE: May 11, 2021



H <sub>2</sub> SO <sub>4</sub>	R35	S26, S30, S45
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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.