

SAFETY DATA SHEET

SDS DATE: Sept 22, 2020

Cat# K283-1, -set, EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail

PRODUCT CODES: Cat# K283-1, -set

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
 CHEMTREC PHONE:
 OTHER CALLS: 408-493-1800
 FAX PHONE: 408-493-1801

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

| Product Name/Chemical Name | Description | Volume | Safety Information |
|--|---------------------|--|--------------------|
| EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail | In H ₂ O | K283-1: 1 ml K283-set: 1 set (5 x 1 ml) | See below |

SECTION 3: HAZARDS IDENTIFICATION

| Component | CAS Number | EC-No. | MW | Chemical Formula |
|------------------------|-------------|-----------|---------|---|
| Aprotinin, Bovine lung | 9087-70-1 | 232-994-9 | 6511.44 | C ₂₈₄ H ₄₃₂ N ₈₄ O ₇₉ S ₇ |
| Bestatin | 58970-76-6 | -- | 308.42 | C ₁₆ H ₂₄ N ₂ O ₄ |
| E-64 | 66701-25-5 | -- | 357.41 | C ₁₅ H ₂₇ N ₅ O ₅ |
| Leupeptin, hemisulfate | 103476-89-7 | -- | 475.59 | C ₂₀ H ₃₈ N ₆ O ₄ · 1/2H ₂ SO ₄ |
| β-Glycerophosphate | 819-83-0 | 212-464-3 | 306.1 | C ₃ H ₇ O ₆ PNa ₂ · 5H ₂ O |
| Sodium Flouride | 7681-49-4 | 231-667-8 | 41.99 | NaF |
| Sodium Orthovanadate | 13721-39-6 | 237-287-9 | 183.91 | Na ₃ VO ₄ |
| Sodium pyrophosphate | -- | -- | 416.1 | Na ₄ P ₂ O ₇ · nH ₂ O |
| EDTA, disodium | 6381-92-6 | -- | 372.24 | C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ |

EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail:

OSHA Hazards: No known OSHA hazards

GHS Classification: Not a dangerous substance according to GHS

GHS Label elements, including precautionary statements

Pictogram: none

Signal word: none

Hazard statement(s): none

Precautionary statement(s): none

HMIS Classification

Health hazard: 0

Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 0

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.

SECTION 4: FIRST AID MEASURES

General advice: 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.

In case of skin contact: Wash off with soap and plenty of water.

In case of eye contact: Flush eyes with water as precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

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5: FIRE-FIGHTING MEASURES

Condition of flammability: Not flammable or combustible.

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

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

Hazardous combustion products: Hazardous combustion products formed under fire conditions— not data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation. Avoid breathing vapors, mist, gas, or dust. Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains.

Methods for cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hygiene measures

General industrial hygiene practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property | EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail |
|----------------------------|--|
| Appearance: | Liquid |
| pH: | No data available |
| Water Solubility: | Completely miscible |
| Other Solubility: | No data available |
| Specific Gravity (g/ml): | No data available |
| Boiling Point (°C): | No data available |
| Melting Point (°C): | No data available |
| Flash Point (°C): | No data available |
| Ignition Temperature (°C): | No data available |
| Density | No data available |

SECTION 10: STABILITY AND REACTIVITY

| Property | EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail |
|-----------------------------------|--|
| Chemical stability | Stable under recommended storage conditions |
| Conditions to avoid: | No data available |
| Materials to avoid: | No data available |
| Hazardous decomposition products: | No data available |

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SECTION 11: TOXICOLOGICAL INFORMATION

EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail:

Acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

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

Teratogenicity: 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

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.

Signs and Symptoms of Exposure: 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: not available

SECTION 12: ECOLOGICAL INFORMATION

EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail:

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

Other adverse effects: no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Product: Observe all federal, state, and local environmental regulations.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail:

DOT (US): Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

SECTION 15: REGULATORY INFORMATION

EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail:

OSHA Hazards: No known OSHA hazards

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 SARA hazards

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: Water, CAS-No. 7732-18-5

EDTA disodium, CAS-No. 6381-92-6

New Jersey Right To Know Components: Water, CAS-No. 7732-18-5

EDTA disodium, CAS-No. 6381-92-6

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

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EU regulations

| Component | Risk Phrases | Safety Phrases |
|--|--------------|----------------|
| EZBlock™ Universal Protease and Phosphatase Inhibitor Cocktail | -- | -- |

SECTION 16: OTHER 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.