

SAFETY DATA SHEET

SDS DATE: December 22, 2020



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **(-)-Huperzine A**

PRODUCT CODES: Cat# B3095-5, -25

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
(-)-Huperzine A	Solid	B3095-5: 5 mg B3094-25: 25 mg	See below

(-)-Huperzine A:

Emergency Overview:

GHS Classification

Acute toxicity, Oral (Category 2), H300
Acute toxicity, Inhalation (Category 2), H330
Acute toxicity, Dermal (Category 2), H310

GHS Label elements, including precautionary statements



Pictogram:

Signal word:

Danger

Hazard statement(s):

H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled

Precautionary statement(s):

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262 Do not get in eyes, on skin, or on clothing.
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.
P280 Wear protective gloves/ protective clothing.
P284 Wear respiratory protection.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P302 + P350 + P310 IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant

HMIS Classification

Health hazard:

Flammability:

Physical hazards:

NFPA Rating

Health Hazard:

Fire:

Reactivity Hazard:

Potential health hazard:

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	EC-No.	Molecular Weight	Chemical Formula	Concentration
(-)-Huperzine A	102518-79-6	--	242.32	C ₁₅ H ₁₈ N ₂ O	100%

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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. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

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

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

SECTION 5: FIRE-FIGHTING MEASURES

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) Combustible.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 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: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs

Conditions for safe storage: Storage temperature: -20 °C. Protect from air. Store under desiccating conditions. Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values

Exposure Controls

Engineering controls (Ventilation etc.)

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full face particle respirator type N100 (US) or type P3 (EN 143) 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.

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

Eye protection

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

Work/Maintenance Practices

Do not take internally. Facilities storing or utilizing this material should be equipped with an eye wash and a safety shower. Wash thoroughly after handling

Hygiene measures

General industrial hygiene practice.

Environmental exposure controls

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	(-)-Huperzine A
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Appearance and Odor:	White crystalline powder
pH:	No data available
Water Solubility:	No data available
Other Solubility:	~20 mg/ml in DMSO
Boiling Point (°C):	No data available
Melting Point (°C):	224 - 226 °C (435 - 439 °F)
Flash Point (°C):	No data available
Ignition Temperature (°C):	No data available
Density:	No data available
Flammability (solid, gas)	No data available
Explosive limits	LEL: No data UEL: No data
Vapor pressure (vs. Air or mmHg)	No data available
Vapor Density (vs. Air = 1)	No data available
Specific Gravity (Water = 1)	No data available
Octanol/Water Partition	No data available
Decomposition Temperature	No data available
Viscosity	No data available

SECTION 10: STABILITY AND REACTIVITY

Property	(-)-Huperzine A
Reactivity	No data available
Chemical stability	Stable under recommended storage conditions
Polymerization	No data available
Conditions to avoid:	No data available
Materials to avoid:	strong oxidizing agents
Hazardous decomposition products:	Carbon oxides, Nitrogen oxides (NOx) (fire condition)

SECTION 11: TOXICOLOGICAL INFORMATION

(-)-Huperzine A:

Acute toxicity: LD50 Oral - Rat - 15 mg/kg Inhalation: No data available Dermal: 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: There may be irritation of the throat with a feeling of tightness in the chest

Skin: There may be mild irritation at the site of contact.

Eyes: There may be irritation and redness.

Ingestion: Fatal if swallowed

Additional Information

RTECS: PB9185700

SECTION 12: ECOLOGICAL INFORMATION

(-)-Huperzine A:

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: No data available

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SECTION 13: DISPOSAL CONSIDERATIONS

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.

SECTION 14: TRANSPORT INFORMATION

(-)-Huperzine A:

Land transport (DOT (US): UN number: 1544 Class: 6.1 Packing group: II Proper shipping name: Alkaloids, solid, n.o.s.
((1R,9R,13E)-1-Amino-13-ethylidene-11-methyl-6-azatricyclo[7.3.1.0^{2,7}]trideca-2(7),3,10-trien-5-one) Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG: UN number: 1544 Class: 6.1 Packing group: II EMS-No: F-A, S-A Proper shipping name:
ALKALOIDS, SOLID, N.O.S. ((1R,9R,13E)-1-Amino-13-ethylidene-11-methyl-6-azatricyclo[7.3.1.0^{2,7}]trideca-2(7),3,10-trien-5-one)

IATA: UN number: 1544 Class: 6.1 Packing group: II Proper shipping name: Alkaloids, solid, n.o.s.
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SECTION 15: REGULATORY INFORMATION

(-)-Huperzine A:

This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC).

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: Acute Health Hazard

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

Pennsylvania Right To Know Components: No data available

New Jersey Right To Know Components: No data available

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.

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.