



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name:	Protease Inhibitor A (100x)
Product #:	P-1551
Supplier:	A.G. Scientific 6450 Lusk Blvd E102 San Diego CA 92121 Tele# + 858-452-9925 Fax# + 858-452-9926
Emergency Tele#:	Chemtrec, Tele# in USA 1-800-424-9300, International 1-703-527-3887

Section 2: Composition / Information on Ingredients

Component	CAS#	EC #	%	Classification	R Phrases
Protease Inhibitor A	N/A	N/A	N/A	N/A	N/A
Antipain	37682-72-7	N/A	N/A	N/A	R36/37/38
Leupeptin	103476-89-7	N/A	N/A	N/A	R20/21/22-63
EDTA	60-00-4	N/A	N/A	N/A	R36

Section 3: Hazards Identification

HMIS Classification:	<p>FLAMMABILITY</p> <p>HEALTH REACTIVITY</p>
NFPA Classification:	<p>FLAMMABILITY</p> <p>HEALTH REACTIVITY</p> <p>OTHER</p>
Symbols:	

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Risk Phrases:	R 37/38: Irritating to respiratory system and skin. R 41: Risk of serious damage to eyes.
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Section 4: First Aid Measures

General Overview:	Avoid contact, wear suitable protective clothing, gloves and eye/face protection. Do not breathe vapor.
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, call a physician
Skin:	In case of contact, immediately wash skin with soap and copious amounts of water.
Eyes:	In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes. Remove contacts. Assure adequate flushing of the eyes by separating the eyelids with fingers.
Ingestion:	If swallowed, wash out mouth with water provided person is conscious. Call a physician
	<i>See section 11 for more detailed information on health effects & symptoms</i>

SECTION 5: Fire Fighting Measures

Extinguishing Media:	Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
Unusual Fire & Explosion Hazards:	N/A
Special Fire Fighting Procedures:	Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s):	Emits toxic fumes under fire conditions
Flash Point:	N/A

Section 6: Accidental Release Measures

Methods for Clean-up:	Scoop up material and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.
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SECTION 7: Handling & Storage

Storage:	-20°C
Handling:	User exposure: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.
Safe Handling Advice:	Wear personal protective equipment

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Incompatible Products:	Oxidizing and spontaneously flammable products
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SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	Wear appropriate government (NIOSH/MSHA or CEN) approved respirator. Do not breathe vapor. Respirator protection is not required.
Skin:	Chemical-resistant gloves and other protective clothing.
Eyes:	Safety goggles.
Ventilation:	Use only in a chemical fume hood
Other:	Wash thoroughly after handling

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	white
Physical State:	Lyophilized solid
Formula:	N/A
Molecular Wt.	N/A
Product #:	N/A
Melting Pt.	N/A
Boiling Pt.	N/A
Density:	N/A
Vapor Pressure:	N/A
Evaporation Rate:	N/A
Vapor Density:	N/A
Solubility:	water
Flash Point:	N/A
Autoignition Temp:	N/A

SECTION 10: Stability and Reactivity

Stability:	Stable
Polymerization:	Hazardous polymerization will not occur.
Hazardous decomposition products:	Carbon Monoxide, Carbon Dioxide, and Nitrogen Oxides.
Materials to Avoid:	Strong Oxidizing agents
Conditions to avoid:	Exposure to air or moisture over prolonged periods.



SECTION 11: Toxicological Information

Route of Exposure:	<p>Skin contact: Causes skin irritation.</p> <p>Skin absorption: May be harmful if absorbed through the skin</p> <p>Eye contact: May cause eye irritation</p> <p>Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.</p> <p>Ingestion: May be harmful if swallowed</p> <p>Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p>
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SECTION 12: Ecological Information

No data available

SECTION 13: Disposal Considerations

Appropriate method of disposal of substance or preparation	Contact a licensed professional waste disposal service to dispose of material. This material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations
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SECTION 14: Transportation Information

DOT:	<p>Proper shipping name: none</p> <p>Hazard Class: non hazardous</p>
IATA:	Non-hazardous for air-transport: Non-hazardous for air transport.

SECTION 15: Regulatory Information

EU Information:	<p>S: 24/25-23</p> <p>Safety statement: Avoid contact with skin and eyes. Do not inhale</p>
US Information:	<p>Risk statement: Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.</p> <p>Safety statement: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.</p>
US Regulations:	SARA listed: No
Canada Regulatory information:	<p>WHMIS: This product has been classified in accordance with hazard criteria of the CPR, and the MSDS contains all information required by CPR.</p> <p>DSL: No</p> <p>NDSL: No</p>

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SECTION 16: Other Information

DISCLAIMER: For R&D use only. Not for drug, household or other uses.

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