

## Safety Data Sheet

### Section 1: Product & Company Identification

<b>Product Name:</b>	Protease Inhibitor Cocktail III, Animal-Free
<b>Product #:</b>	P-1542
<b>Synonyms:</b>	-
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

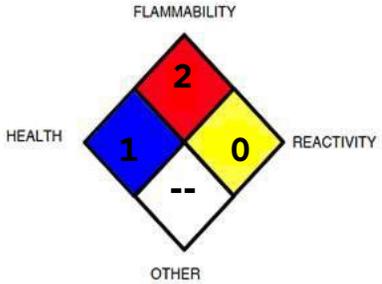
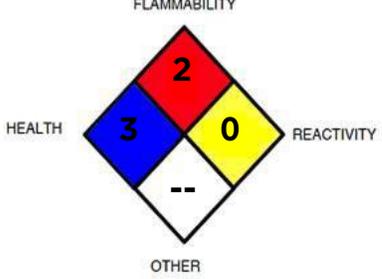
### Section 2: Composition / Information on Ingredients

Component	CAS#	Concentration	Target Proteases
AEBSF HCl	30827-99-7	100 mM	Serine Proteases
Bestatin HCl	65391-42-6	5 mM	Aminopeptidase B and Leucine Aminopeptidase
Leupeptin hemisulfate	103476-89-7	2 mM	Cysteine and Trypsin-like Proteases
E-64	66701-25-5	1.5 mM	Cysteine Proteases
Pepstatin A	26305-03-3	1 mM	Aspartic Proteases
Aprotinin	9087-70-1	80 µM	Broad Spectrum, Serine Proteases
Dimethyl Sulfoxide	67-68-5	-	-

### Section 3: Hazards Identification

#### Symbols



<b>HMIS Classification</b>	
<b>NFPA Classification</b>	

## Section 4: First Aid Measures

<b>General Overview:</b>	Avoid contact, wear suitable protective clothing, gloves, and eye/face protection.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration, seek medical attention.
<b>Skin:</b>	Wash immediately with water for 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Seek medical attention if symptoms appear.
<b>Eyes:</b>	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.
<b>Ingestion:</b>	If swallowed, DO NOT induce vomiting. Wash mouth with water, never give anything to unconscious person. Seek medical attention.
	See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	No data available
<b>Extinguishing Media:</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> )
<b>Hazardous thermal (de)composition products:</b>	Carbon oxides

<b>Special Fire Fighting Procedures:</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Flash Point:</b>	No data available

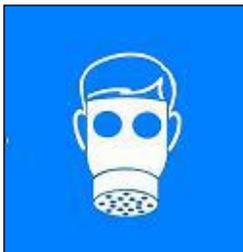
## Section 6: Accidental Release Measures

<b>Personal Precautions:</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
<b>Environmental Precautions:</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Methods for Clean-up:</b>	Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

## SECTION 7: Handling & Storage

<b>Storage:</b>	Keep away from heat, sparks, and open flame. Store in a cool, dry place out of direct sunlight. Recommended storage temperature: -20 °C.
<b>Handling:</b>	Keep away from open flames, hot surfaces, and sources of ignition. When using do not smoke. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	 <p>If exposure limit reached use ventilation system when handling or wear appropriate government (NIOSH/MSHA) approved respirator.</p>
<b>Skin and Body:</b>	

	  <p>Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Wear suitable protective clothing.</p>
<p><b>Eyes:</b></p>	 <p>Wear safety glasses with side shields (or goggles).</p>
<p><b>Ventilation/Engineering Measures:</b></p>	<p>Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.</p>
<p><b>Hygiene:</b></p>	<p>Handle in accordance with good industrial hygiene and safety practice.</p>
<p><b>Other:</b></p>	<p>Contains no substances with occupational exposure limit values.</p>

## SECTION 9: Physical and Chemical Properties

<p><b>Appearance &amp; Odor:</b></p>	<p>Colorless liquid</p>
<p><b>Formula</b></p>	<p>No data available</p>
<p><b>Molecular Wt.</b></p>	<p>No data available</p>
<p><b>Melting Pt.</b></p>	<p>No data available</p>
<p><b>Boiling Pt.</b></p>	<p>No data available</p>
<p><b>Density:</b></p>	<p>No data available</p>
<p><b>Vapor Pressure:</b></p>	<p>No data available</p>
<p><b>Evaporation Rate:</b></p>	<p>No data available</p>
<p><b>Vapor Density:</b></p>	<p>No data available</p>
<p><b>Solubility:</b></p>	<p>Water</p>
<p><b>Flash Point:</b></p>	<p>No data available</p>
<p><b>Autoignition Temp:</b></p>	<p>No data available</p>

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	Stable under proper storage conditions.
<b>Hazardous decomposition products:</b>	Carbon oxides, Nitrogen oxides, Sulfur oxides
<b>Materials to Avoid:</b>	Strong oxidizing agents
<b>Conditions to avoid:</b>	Fire

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	N/A
<b>ACUTE Toxicity:</b>	N/A
<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	<p>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.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	No data available
<b>Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Only professional staff trained in such techniques must undertake waste disposal. Observe all appropriate federal, provincial, or state and local regulations.
<b>Contaminated Packaging:</b>	Do not re-use empty containers. Dispose of as unused product.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	N/A
<b>ADR / RID (LAND):</b>	Not regulated
<b>DOT regulations:</b>	Not regulated
<b>IMDG/IMO (SEA):</b>	Not regulated
<b>IATA/DGR (AIR):</b>	Not regulated
<b>Special Provisions:</b>	N/A

## SECTION 15: Regulatory Information

<b>Health Phrases:</b>	H227 Combustible liquid
<b>Risk Phrases:</b>	P210 Keep away from flames and hot surfaces-No smoking. Wear protective gloves/eye protection/face protection. P370 In case of fire: Use foam, carbon dioxide, dry powder, or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Safety Phrases:</b>	N/A
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	TSCA: No products were found California Proposition 65: No products were found Massachusetts State Right to Know: Dimethyl sulfoxide (CAS 67-68-5) Pennsylvania State Right to Know: Dimethyl sulfoxide (CAS 67-68-5) New Jersey State Right to Know: Dimethyl sulfoxide (CAS 67-68-5)
<b>U.S. Federal Regulations:</b>	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found.  Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found.



	Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: Combustible Liquid, Target Organ Effect, Corrosive
<b>WHMIS (Canada):</b>	N/A

## **SECTION 16: Other Information**

**LIABILITY STATEMENT:** *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*