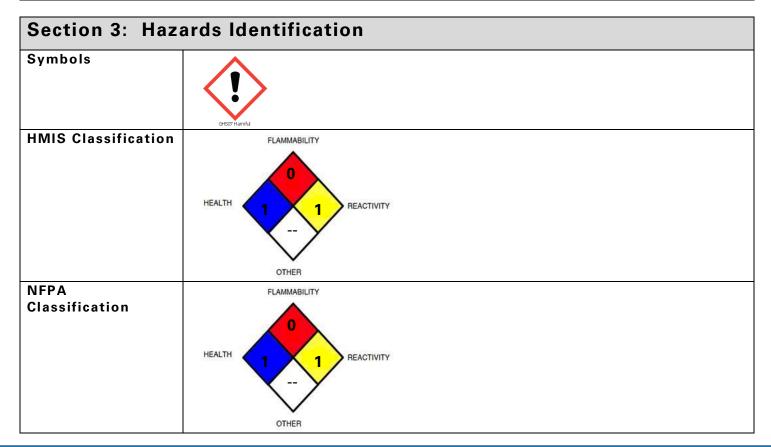


## **Material Safety Data Sheet**

Section 1: Product & Company Identification		
Product Name:	BESTATIN HCL	
Product #:	B-1075	
Synonyms:	Aminopeptidase inhibitor; leucine aminopeptidase; aminopeptidase B; NK-421	
Supplier:	A.G. Scientific, Inc. 6450 Lusk Blvd E102 San Diego CA 92121 Tele# + 858-452-9925	
Emergency Tele#:	Fax# + 858-452-9926 ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients				
Component	CAS#	EC#	%	HCS Classification
BESTATIN HCL	65391-42-6		≥98%	





Section 4: First Aid Measures		
General Overview:	Avoid contact, wear suitable protective clothing, gloves and eye/face protection.	
Inhalation:	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration, seek medical attention.	
Skin:	Wash immediately with water for 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Seek medical attention if symptoms appear.	
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, 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			
Flammability of	May be combustible at high temperatures.		
the product:			
Extinguishing	Dry Chemical Powder for SMALL FIRES and carbon dioxide or water spray, fog or foam		
Media:	for LARGE FIRES. Do not use water jet.		
Hazardous	Carbon oxides Nitrogen oxides Hydrogen chloride		
thermal			
(de)composition			
products:			
Special Fire	Wear self-contained breathing apparatus (SCBA) and protective clothing to prevent		
Fighting	contact with skin and eyes. Be sure to use an approved/certified respirator or equivalent.		
Procedures:			
Flash Point:	N/A		

Section 6: Accidental Release Measures			
Personal	Use Personal Protection Equipment. Splash goggles. Gloves. Avoid dust formation.		
Precautions:			
Environmental	Do not let product enter drains.		
Precautions:			
Methods for	Sweep up & shovel into suitable disposal container. Ventilate area and wash spill site		
Clean-up:	after material pickup is complete.		

SECTION 7: Handling & Storage		
Storage:	Store at -20°C and protect from light. Keep container tightly closed and in cool, dry, well ventilated area.	
Handling:	Use only in area provided with appropriate exhaust ventilation. Keep away from heat and source of ignition. Empty containers pose a fire risk, evaporate residue under fume hood.	



Ground all equipment containing material. Do not breathe dust.

## **SECTION 8: Exposure controls / Personal Protection Respiratory Protection:** If exposure limit reached use ventilation system when handling or wear appropriate government (NIOSH/MSHA) approved respirator. Skin and Body: Chemical-resistant gloves and lab coat/other protective clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Eyes: Safety goggles. Ventilation/Engineering Use process enclosures, local exhaust ventilation, or other engineering controls to Measures: keep airborne levels below recommended exposure limits. Hygiene: Wash hands after handling compound and before eating, smoking, using lavatory and at the end of the day. Contains no substances with occupational exposure limit values. Other:

SECTION 9: Physical and Chemical Properties		
Appearance & Odor:	White powder	
Formula	C <sub>16</sub> H <sub>24</sub> N <sub>2</sub> O <sub>4</sub> .HCl	
Molecular Wt.	344.8	
Melting Pt.	213-215°C	
Boiling Pt.	N/A	
Density:	N/A	



Vapor Pressure:	N/A
<b>Evaporation Rate:</b>	N/A
Vapor Density:	N/A
Solubility:	Clear to slightly hazy 10mg/ml in water, Up to 20mg/ml in HCl and Up to 5mg/ml in
	MeOH
Flash Point:	N/A
Autoignition Temp:	N/A

SECTION 10: Stability and Reactivity		
Stability:	Stable under proper storage conditions	
Hazardous decomposition products:	Carbon oxides Nitrogen oxides Hydrogen chloride	
Materials to Avoid:	Strong oxidizing agents, strong acids	
Conditions to avoid:	Fire, light	

SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:		
CHRONIC Toxicity:	N/A	
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	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. 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. 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. 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. EPA: No classification on carcinogenic data is available from EPA	

SECTION 12: Ecological Information		
Ecotoxicity:	N/A	
Mobility:	N/A	
Persistence and	N/A	
degradability:		
Bioaccumulative	N/A	
potential:		
Other adverse effects:	N/A	
Corrosivity	N/A	
Characteristic:		
General Notes:	Do not allow undiluted product or large quantities of it to reach groundwater,	



water course or sewer system. Do not allow materials to be released into the
environment without proper government permits.

SECTION 13: Disposal Considerations	
Residue Waste or Unused product:	Only professional staff trained in such techniques must undertake waste disposal. Observe all appropriate federal, provincial or state and local regulations.
Contaminated Packaging:	Do not re-use empty containers. Dispose of as unused product.

SECTION 14: Transportation Information	
UN ID#:	N/A
ADR / RID (LAND):	Not shipping hazard
DOT regulations:	Not shipping hazard
IMDG/IMO (SEA):	Not shipping hazard
IATA/DGR (AIR):	Not shipping hazard
Special Provisions:	N/A

SECTION 15: Regulatory Information	
Health Phrases:	H315: Causes skin irritation
	H319: Causes serious eye irritation
	H335: May cause respiratory irritation
Risk Phrases:	N/A
Safety Phrases:	N/A
EU Regulations:	N/A
US Regulations:	TSCA. No products were found.
	California Proposition 65: No products were found.
U.S. Federal	SARA 302/304/311/312 extremely hazardous substances: No products were found
Regulations:	SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: 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: No products were found.
WHMIS (Canada):	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. A.G. Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. A.G. Scientific products are for research purposes only. Not for human use or consumption.