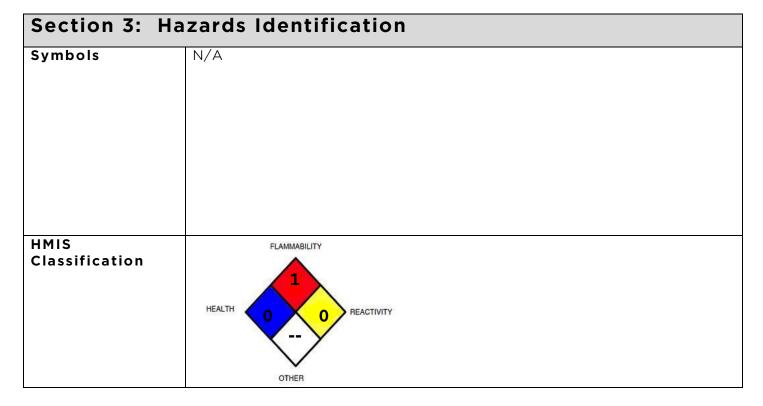


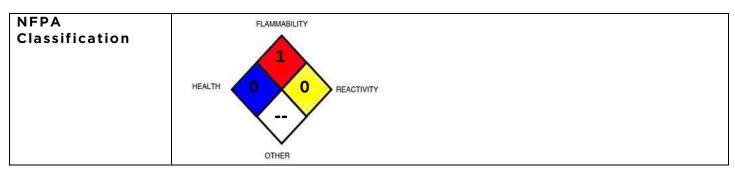
## **Safety Data Sheet**

Section 1: Product & Company Identification		
Product Name:	Bestatin HCI	
Product #:	B-1075	
Synonyms:	Ubenimex hydrochloride; N-[(2S,3R)-3-Amino-2-hydroxy-4-phenylbutyryl]-Lleucinehydrochloride	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC#	% Composition
Bestatin HCl	65391-42-6	-	100







Section 4: First Aid Measures		
General Overview:	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist /vapors/spray. Do not get in eyes, on skin, or on clothing.	
Inhalation:	Remove to fresh air Call a physician If breathing is irregular or stopped, administer artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation Artificial respiration and/or oxygen may be necessary Immediate medical attention is not required Move to fresh air in case of accidental inhalation of vapors If symptoms persist, call a physician	
Skin:	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required.	
Eyes:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.	
Ingestion:	Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.	
	See section 11 for more detailed information on health effects & symptoms.	

SECTION 5:	Fire Fighting Measures
Flammability of the product:	No data available
Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous thermal (de)composition products:	Carbon oxides. Nitrogen oxides (NOx). Phosgene.
Special Fire Fighting Procedures:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Flash Point:	No data available



Section 6: A	ccidental Release Measures
Personal Precautions:	Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions:	Prevent entry into waterways, sewers, basements, or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.
Methods for Clean-up:	Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

SECTION 7:	Handling & Storage
Storage:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Store at -20°C.
Handling:	Avoid contact with skin, eyes, or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink, or smoke when using this product. Use with local exhaust ventilation. Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

## **SECTION 8: Exposure controls / Personal Protection**

## **Respiratory Protection:**



If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.



Skin and Body:	Wear protective gloves and protective clothing.
Eyes:	Tight sealing safety goggles. Face protection shield.
Ventilation/Engineering Measures:	Showers, Eyewash stations, Ventilation systems
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

SECTION 9: Physical and Chemical Properties		
Appearance &	White powder	
Odor:		
Formula	C <sub>16</sub> H <sub>24</sub> N <sub>2</sub> O <sub>4</sub> • HCl	
Molecular Wt.	344.8	
Melting Pt.	216°C	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
<b>Evaporation Rate:</b>	No data available	
Vapor Density:	No data available	
Solubility:	Water (25 g/L)	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		



SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous decomposition products:	Carbon oxides. Nitrogen oxides (NOx). Phosgene.	
Materials to Avoid:	Strong oxidizing agents	
Conditions to avoid:	Extremes of temperature and direct sunlight.	

SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:	No data available	
CHRONIC Toxicity:	No data available	
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:	May cause long lasting harmful effects to aquatic life.	
Mobility:	No data available	
Persistence and	No data available	
degradability:		
Bioaccumulative	No data available	
potential:		
Other adverse	No data available	
effects:		
Corrosivity	No data available	
Characteristic:		
General Notes:	Do not allow undiluted product or large quantities of it to reach groundwater or sewer system. Do not allow materials to be released	
	into the environment without proper government permits.	



SECTION 13: Di	sposal 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 regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	N/A

SECTION 15: Regulatory Information		
Health Phrases:	Not hazardous	
Risk Phrases:	N/A	
Safety Phrases:	N/A	
EU Regulations:	N/A	
US Regulations:	TSCA: Not listed	
	California Proposition 65: Not listed	
U.S. Federal	SARA 302/304/311/312 extremely hazardous substances: No products	
Regulations:	were found	
	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. 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.