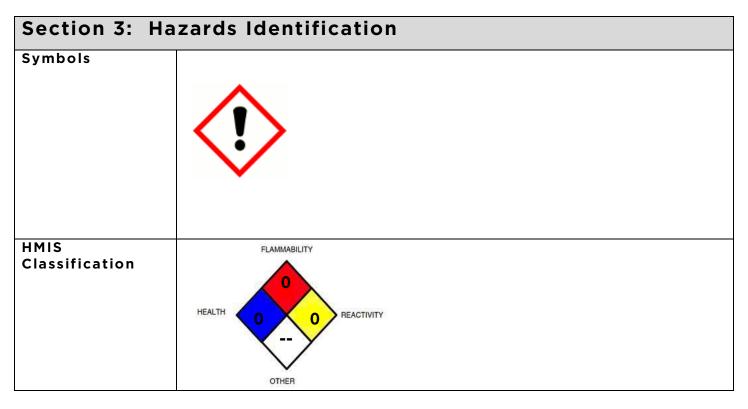


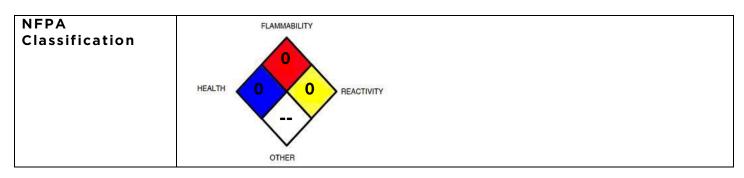
# **Safety Data Sheet**

Section 1: Product & Company Identification		
Product Name:	Blasticidin S HCl Solution in HEPES buffer (10 mg/mL)	
Product #:	B-1247-SOL	
Synonyms:	Bla-S; Blasticidin S	
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
Water	7732-18-5	231-791-2	≥ 98.5
Blasticidin S Hydrochloride	3513-03-9	609-067-6	1.0
HEPES Powder	7365-45-9	230-907-9	≤ 0.5







Section 4: First Aid Measures		
General Overview:	Consult a doctor and show this safety data sheet.	
Inhalation:	Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.	
Skin:	Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.	
Eyes:	Flush with copious amounts of water for at least 15 minutes. Consult a doctor.	
Ingestion:	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.	
	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:	Dry powder
Hazardous thermal (de)composition products:	No data available
Special Fire Fighting Procedures:	Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.
Flash Point:	No data available

Section 6:	Accidental Release Measures
Personal	Do not take action without suitable protective clothing - see section 8 of SDS.
Precautions:	Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid
	breathing vapors, mist, dust, or gas.



Environmental	Do not let product enter drains.
Precautions:	
Methods for	Cover spillage with suitable absorbent material. Using non-spark tools, sweep
Clean-up:	up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

SECTION 7:	Handling & Storage
Storage:	Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Store at -20 °C. Keep in a dry place.
Handling:	Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin, and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

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

### **Respiratory Protection:**



Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Skin and Body:





Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.



	Wear appropriate protective clothing. 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.
Eyes:	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).
Ventilation/Engineering Measures:	Use in a fume hood where applicable.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Do not let product enter drains.

SECTION 9: Physical and Chemical Properties		
Appearance &	Clear solution	
Odor:		
Formula	$C_{17}H_{26}N_8O_5$ •HCl	
Molecular Wt.	458.9	
Melting Pt.	No data available	
Boiling Pt.	No data available	
рН	7.2 - 7.5	
Vapor Pressure:	No data available	
<b>Evaporation Rate:</b>	No data available	
Vapor Density:	No data available	
Solubility:	Water	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended transport or storage conditions.	
Hazardous	No data available	
decomposition		
products:		
Materials to Avoid:	Strong oxidizing agents, strong acids, strong bases	



Conditions to avoid:	No data available

SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:	N/A	
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:	No data available	
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:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.	

SECTION 13: Disposal Considerations		
Residue Waste or Unused product:	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 container and unused contents in accordance with federal, state, and local requirements.	



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:	H302 Harmful if swallowed	
Risk Phrases:	P264 Wash skin thoroughly after handling	
	P270 Do not eat, drink, or smoke when using this product.	
Safety Phrases:	P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/	
	physician if you feel unwell.	
	P330 Rinse mouth.	
	P501 Dispose of contents/ container to an approved waste disposal plant.	
EU Regulations:	N/A	
US Regulations:	TSCA: Not listed	
	California Proposition 65: Not listed	
U.S. Federal	SARA 302/304 emergency planning and notification: No products were	
Regulations:	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):	This product has been classified in accordance with the hazard criteria of	
	the Controlled Products Regulations (CPR) and the SDS contains all the	
	information required by the CPR.	

# **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.