

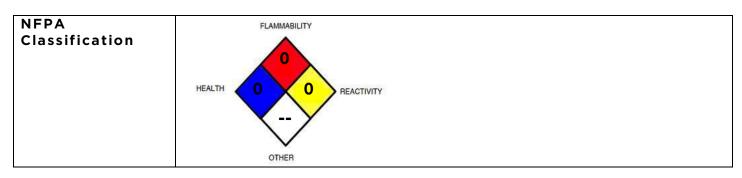
# **Safety Data Sheet**

Section 1: Product & Company Identification		
Product Name:	Lactacystin	
Product #:	L-1147	
Synonyms:	N-Acetyl-S-{[(2R,3S,4R)-3-hydroxy-2-(1-hydroxy-2-methylpropyl)-4-methyl-5-oxo-2-pyrrolidinyl]carbonyl}-L-cysteine	
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
Lactacystin	133343-34-7	-	≥98

Section 3:	Hazards Identification
Symbols	N/A
HMIS Classification	HEALTH O REACTIVITY OTHER





Section 4: First Aid Measures		
General	The most important known symptoms and effects are described in the	
Overview:	labelling (see section 2.2) and/or in section 11.	
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial	
	respiration.	
Skin:	Wash off with soap and plenty of water.	
Eyes:	Flush eyes with water as a precaution.	
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with	
	water.	
	See section 11 for more detailed information on health effects & symptoms.	

SECTION 5:	Fire Fighting Measures
Flammability of	No data available
the product:	
Extinguishing	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Media:	
Hazardous	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides
thermal	
(de)composition	
products:	
Special Fire	Wear self-contained breathing apparatus for firefighting if necessary.
Fighting	
Procedures:	
Flash Point:	No data available

Section 6: Accidental Release Measures		
Personal	Avoid dust formation. Avoid breathing vapors, mist, or gas.	
Precautions:		
Environmental	Do not let product enter drains.	
Precautions:		
Methods for	Sweep up and shovel. Keep in suitable, closed containers for disposal.	
Clean-up:		



SECTION 7:	Handling & Storage
Storage:	Keep container tightly closed in a dry and well-ventilated place.  Recommended storage temperature -20°C
	· · · · · · · · · · · · · · · · · · ·
	Storage class (TRGS 510): 13: Non-Combustible Solids
Handling:	Provide appropriate exhaust ventilation at places where dust is formed.

## SECTION 8: Exposure controls / Personal Protection

#### **Respiratory Protection:**



Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Skin and Body:





Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Choose body protection in relation to its type, to the concentration and amounts of dangerous substances, and to the specific workplace., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



Eyes:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Ventilation/Engineering Measures:	Do not let product enter drains.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties		
Appearance &	Lyophilized or White crystalline solid	
Odor:		
Formula	C <sub>15</sub> H <sub>24</sub> N <sub>2</sub> O <sub>7</sub> S	
Molecular Wt.	376.43	
Melting Pt.	236 - 238°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:	DMSO, water, ethanol	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous	Carbon oxides; Nitrogen oxides (NOx); Sulfur oxides	
decomposition		
products:		
Materials to Avoid:	Strong oxidizing agents	
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:	Offer surplus and non-recyclable solutions to a licensed disposal company.	
Contaminated Packaging:	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: No products were found	
	Pennsylvania State Right to Know: Listed	
	New Jersey State Right to Know: 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):	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.