

Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Tunicamycin	
Product #:	T-1016	
Synonyms:	-	
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
Tunicamycin	11089-69-5	-	

Section 3:	Hazards Identification	
Symbols		

Section 4: First Aid Measures		
General	Show this material safety data sheet to the doctor in attendance.	
Overview:		
Inhalation:	After inhalation: fresh air	
Skin:	In case of skin contact: Take off all contaminated clothing immediately. Rinse skin with water/shower.	
Eyes:	After eye contact: Rinse out with plenty of water. Remove contact lenses.	
Ingestion:	If swallowed, give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are awake and fully	



conscious), administer activated charcoal (20-40 g in a 10% slurry) and consult a doctor as quickly as possible.
See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures			
Flammability of the product:	Combustible		
Extinguishing Media:	Water, foam, carbon dioxide, dry powder		
Hazardous thermal (de)composition products:	Nature of decomposition products is not known. Development of hazardous combustion gases or vapors possible in the event of fire.		
Special Fire Fighting Procedures:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Prevent fire extinguishing water from contaminating surface water or the ground water system.		
Flash Point:	No data available		

Section 6: Accidental Release Measures		
Personal	Avoid inhalation of dusts. Avoid substance contact. Ensure adequate	
Precautions:	ventilation. Evacuate the danger area, observe emergency procedures, consult	
	an expert. For personal protection see Section 8.	
Environmental	Do not let product enter drains.	
Precautions:		
Methods for	Cover drains. Collect, bind, and pump off spills. Observe possible material	
Clean-up:	restrictions (see Sections 7 and 10). Take up carefully. Dispose of properly.	
	Clean up affected area. Avoid generation of dusts.	

SECTION 7:	Handling & Storage
Storage:	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature: -20°C. Light sensitive. Moisture sensitive.
Handling:	General industrial hygiene practices.

SECTION 8: Exposure controls / Personal Protection



Respiratory Protection:



Recommended Filter type: Filter type P3. The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

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.

Protective clothing.

Eyes:



Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.



Ventilation/Engineering Measures:	Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. 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 &	White solid	
Odor:		
Formula	C ₃₉ H ₆₄ N ₄ O ₁₆	
Molecular Wt.	840.0	
Melting Pt.	234 - 235°C	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
Evaporation Rate:	No data available	
Vapor Density:	No data available	
Solubility:	DMSO, Ethanol	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.	
	The product is chemically stable under standard ambient conditions (room temperature).	
Hazardous decomposition products:	No data available	
Materials to Avoid:	Strong oxidizing agents	
Conditions to avoid:	No data available	

SECTION 11: Toxicological Information	
RTECS#:	Exposure may affect cell growth rate and morphology., Neurotoxic effects. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



	Stomach - irregularities - Based on human evidence.
ACUTE Toxicity:	LD50 Oral = 1 mg/kg (Pig)
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:	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste.
Contaminated Packaging:	Handle uncleaned containers like the product itself.

SECTION 14: Transportation Information	
UN ID#:	3462
ADR / RID (LAND):	N/A
DOT regulations:	UN#: 3462



	Class 6.1
	Packing Group: II
	Proper Shipping Name: Toxins, extracted from living sources, solid, n.o.s.
	(tunicamycin)
	Poison Inhalation Hazard: No
IMDG/IMO (SEA):	UN#: 3462
	Class 6.1
	Packing Group: II
	EMS-No: F-A, S-A
	Proper Shipping Name: TOXINS, EXTRACTED FROM LIVING SOURCES,
	SOLID, N.O.S. (tunicamycin)
IATA/DGR (AIR):	UN#: 3462
	Class 6.1
	Packing Group: II
	Proper Shipping Name: Toxins, extracted from living sources, solid, n.o.s.
	(tunicamycin)
Special Provisions:	N/A

SECTION 15: Regulatory Information	
Health Phrases:	Danger!
	H300 Fatal if swallowed.
Risk Phrases:	P264 Wash skin thoroughly after handling.
	P270 Do not eat, drink, or smoke when using this product.
Safety Phrases:	P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON
	CENTER/doctor. Rinse mouth.
	P405 Store locked up.
	P501 Dispose of contents/ container to an approved waste disposal
	plant.
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: Acute Health Hazard, Chronic Health Hazard
	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: Acute toxicity - oral (Cat. 1)
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.