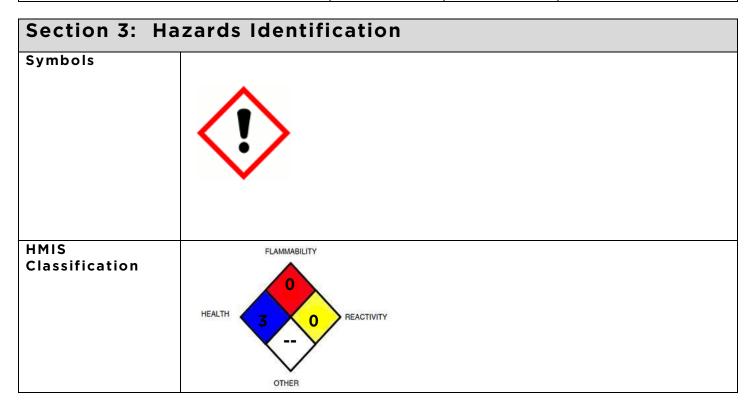


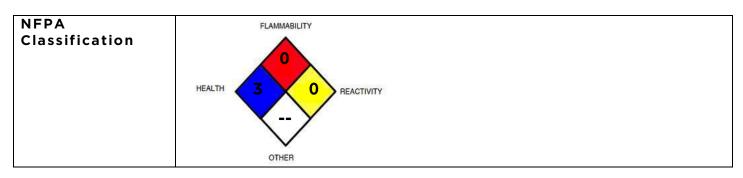
Safety Data Sheet

Section 1: Produ	ct & Company Identification
Product Name:	Castanospermine
Product #:	C-1501
Synonyms:	6,7-Diepicastanospermine; 6-Epicastanospermine; NSC 625381; 1,6,7,8-Tetrahydroxyoctahydroindolizine
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
Castanospermine	79831-76-8	616-743-4	≥ 98







Section 4: Fi	rst Aid Measures
General	Symptoms of poisoning may even occur after several hours; therefore medical
Overview:	observation for at least 48 hours after the accident.
Inhalation:	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
Skin:	Generally the product does not irritate the skin.
Eyes:	Rinse opened eye for several minutes under running water.
Ingestion:	Immediately call a doctor.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5:	Fire Fighting Measures
Flammability of	Product is not flammable.
the product:	
Extinguishing	Use fire fighting measures that suit the environment. A solid water stream
Media:	may be inefficient.
Hazardous	No data available
thermal	
(de)composition	
products:	
Special Fire	Mouth respiratory protective device.
Fighting	
Procedures:	
Flash Point:	No data available

Section 6: A	ccidental Release Measures
Personal	Not required
Precautions:	
Environmental	Do not allow to enter sewers/surface or ground water.
Precautions:	
Methods for	Ensure adequate ventilation.
Clean-up:	



SECTION 7:	Handling & Storage
Storage:	Keep container tightly closed. Recommended storage temperature: -20°C
Handling:	Thorough dedusting. Ensure good ventilation/exhaustion at the workplace.

Handling: Thoroug	h dedusting. Ensure good ventilation/exhaustion at the workplace.
SECTION 8: Expos	ure controls / Personal Protection
Respiratory Protection:	In case of brief exposure or low pollution use a respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Skin and Body:	Protective gloves. The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Protective lab coat.
Eyes:	Not required
Ventilation/Engineering Measures:	Ensure adequate ventilation.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.



Other:	N/A
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SECTION 9: P	hysical and Chemical Properties
Appearance &	Solid, characteristic odor
Odor:	
Formula	C ₈ H ₁₅ NO ₄
Molecular Wt.	189.2
Melting Pt.	No data available
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 [10 mg/mL), PBS (pH 7.2) [10 mg/mL]
Flash Point:	No data available
Autoignition	No data available
Temp:	

SECTION 10: Sta	bility and Reactivity
Stability:	Stable under recommended storage conditions.
Hazardous decomposition products:	Carbon oxides, nitrogen oxides
Materials to Avoid:	Strong oxidizing agents
Conditions to avoid:	No data available

SECTION 11: Toxicological Information		
RTECS#:	NM2408333	
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:	Water Hazard Class 1 (Self-Assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system.	
Mobility:	No data available	
Persistence and degradability:	No data available	
Bioaccumulative potential:	No data available	
Other adverse effects:	No data available	
Corrosivity Characteristic:	No data available	
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:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.	
Contaminated Packaging:	Disposal must be made according to official regulations.	

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:	Warning!
	H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
Risk Phrases:	P261 Avoid breathing dust/fume/gas/mist/vapors/spray
	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves / protective clothing.
Safety Phrases:	P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
	P302+P352 If on skin: Wash with plenty of water.



	P304+P340 IF INHALED: Remove person to fresh air and keep
	comfortable for breathing.
	P321 Specific treatment (see on this label).
	P330 Rinse mouth.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P501 Dispose of contents/container in accordance with local/regional/
	national/international regulations.
EU Regulations:	N/A
US Regulations:	TSCA: Not listed
	California Proposition 65: No products were found
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/GHS: Acute Toxicity - Oral (Cat. 4), Acute Toxicity - Dermal (Cat.
	4), Acute Toxicity - Inhalation (Cat. 4)
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.