

MSDS for Castanospermine Page 1 of 2

MSDS- Material Safety Data Sheet: Castanospermine

	Section 1. Product and Company Information
Company	Fermentek ltd.
idendification	
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	Website: www.fermentek.com
Name:	Castanospermine from Castanospermum australe
CAS Number:	79831-76-8
Catalog Code:	CAS
Synonyms	1,6,7,8-Tetrahydroxyoctahydroindolizine
	Section2. Composition/Information on Ingredient
Chemical Formula:	C8H15NO4
Chemical Class:	Alkaloid
RTECS	NM2408333
	Section3. Hazards Identification
Emergency	May be harmful if ingested, inhaled, or absorbed through the skin. May cause eye or skin irritation. To the best of
Overview	our knowledge, the toxicological properties of this compound have not been fully investigated. Exercise
	appropriate precautions to prevent opportunities for inhalation, and to prevent direct contact with skin and eyes.
	All uncharacterized chemicals should be treated as suspected toxins.
HMIS RATING	HEALTH: 0; FLAMMABILITY: 1;REACTIVITY: 0; Personal protection A
NFPA RATING	HEALTH: 0; FLAMMABILITY: 1; REACTIVITY: 0
	Section4. First Aid Measures
Eye Contact	Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids.
Chin Combant	Seek medical attention immediately.
Skin Contact	Wash with soap and water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention immediately
Inhalation	Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial
	respiration. Seek medical attention immediately. Provide chemical label and MSDS if possible.
Ingestion	Remove dentures and clear mouth. If person is conscious, rinse mouth with water Call physician or poison control
	immediately. Provide chemical label and MSDS information if possible.
	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an
	unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Aggravating	
conditions	Repeated or prolonged exposure is not known to aggravate medical condition.
	Section5. Fire and Explosion Data
Flammability	May be combustible at high temperature.
Flash Point	Not Available
Combustion	CO, CO2, nitric oxides
Products	CO, CO2, Mitric Oxides
Extinguishing	Carbon Dioxide, Dry chemical powder, polymer foam, water spray
Media	, , , , , , , , , , , , , , , , , , , ,
Special Fire fighting Procedures	Use self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire	
Hazards	None known
	Section6 - Accidental Release Measures
Cleanup Procedures	Wearing appropriate protective gear as outlined under "Protective equipment" wipe up spill and place in sealed
ciculiup i loccuules	container and hold for disposal. Avoid raising dust. Ventilate the area and wash spill site after material has been
	removed



MSDS for Castanospermine Page 2 of 2

Waste Disposal Method	Observe all Federal, State and Local regulations concerning the disposal of this product. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete
	Section7 - Handling and Storage
Protective	For spill clean-up, wear suitable protective clothing, chemical resistant rubber gloves, rubber boots, and chemical
Equipment	safety goggles. Self-contained breathing apparatus or NIOSH/MSHA approved respirator is recommended.
Storage and	This product should be kept in a tightly closed container. This product should be handled only by qualified
Handling	experienced professionals. Wash thoroughly after handling this material Store at -18oC
3	Section8 - Exposure Controls / Personal protection
General	Use only in a chemical fume hood. Safety shower and eye bath. Use adequate ventilation to keep airborne
00110101	concentrations low
Personal protective	Respiratory: Government approved respirator.
equipment	Hand: Compatible chemical-resistant gloves.
	Eye: Chemical safety goggles.
	Section 9. Physical Data
Appearance	White to off-white solid.
Molecular Weight	189.2
Melting	212-215 °C (decomposition)
Solubility	water
	Section 10. Stability and Reactivity Data
Stability	This material is stable if stored as directed
Conditions to Avoid	Excess heat, strong oxidizers
Incompatibles	NA
Hazardous	
polymerization	Will not occur
	Section11 - Toxicological Information
RTECS#:	NM2408333
Toxicity data	Not available
	Section 12 - Ecological Data
	Eco-toxicological Information: not available
	Section 13 - Disposal Considerations
Appropriate	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with
method of disposal	a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all
of substance or	federal, state, and local environmental regulations. Chemical waste generators must determine whether a
preparation	discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are
	listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste
	regulations to ensure complete and accurate classification.
B.07	Section14 - Transport Information
DOT	NA Not controlled under IATA
IATA	Not controlled under IATA.
	Section15- regulatory Information
	Section 16 -Other Information
Warranty	For R&D use only. Not for drug, household or other uses. For use only by trained personnel.
Disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a
	guide. The information in this document is based on the present state of our knowledge and is applicable to the
	product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the
	product. The burden of safe use of this material rests entirely with the user. Fermentek shall not be held liable or any damage resulting from handling or from contact with the above product.
	any damage resulting from nationing of from contact with the above product.