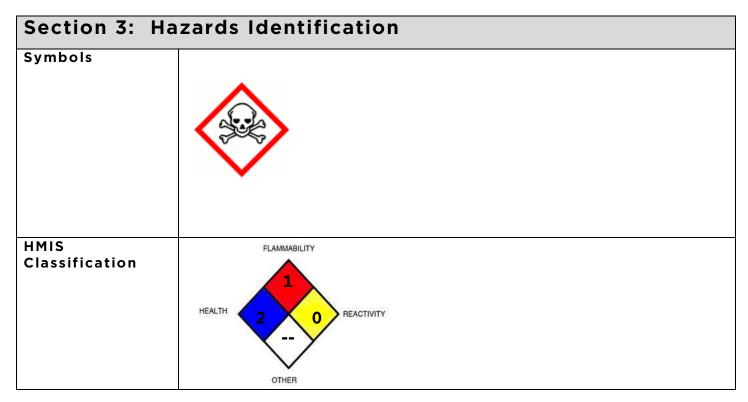


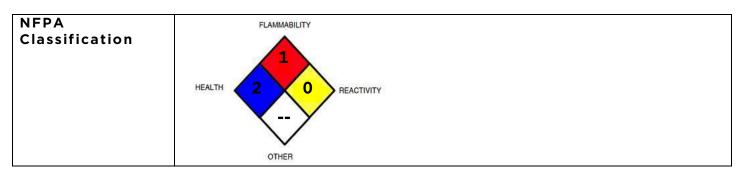
Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Camptothecin Solution	
Product #:	C-2215	
Synonyms:	Camptothecine; Campathecin; (S)-(+)-Camptothecin; (+)-Camptothecin; d-Camptothecin; 20(S)-Camptothecine	
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
Camptothecin	7689-03-4	-	≥98







Section 4: First Aid Measures		
General	Consult a physician. Show this safety data sheet to the doctor in attendance.	
Overview:	Move out of dangerous area.	
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.	
Skin:	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.	
Eyes:	Flush eyes with water as a precaution.	
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.	
	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:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.	
Hazardous thermal (de)composition products:	Carbon oxides, Nitrogen oxides (NOx)	
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.	
Flash Point:	No data available	

Section 6: Accidental Release Measures		
Personal Precautions:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.	
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.	



Methods for	Pick up and arrange disposal without creating dust. Sweep up and shovel.	
Clean-up:	Keep in suitable, closed containers for disposal.	

SECTION 7:	Handling & Storage
Storage:	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8°C. Keep in a dry place. Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects
Handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:



Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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.



	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	Avoid contact with skin, eyes, and clothing. Wash hands before
Measures:	breaks and immediately after handling the product.
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 &	Liquid	
Odor:		
Formula	$C_{20}H_{16}N_2O_4$	
Molecular Wt.	348.35	
Melting Pt.	260°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:	Stable under recommended storage conditions.	
Hazardous decomposition products:	Carbon oxides, Nitrogen oxides (NOx)	
Materials to Avoid:	No data available	



Conditions to avoid: No data available
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SECTION 11: Toxicological Information		
RTECS#:	UQ0492000	
ACUTE Toxicity:	LD50 Oral = 153 mg/kg (Rat)	
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: D	isposal Considerations
Residue Waste or Unused product:	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging:	Dispose of as unused product.



SECTION 14: Transportation Information		
UN ID#:	1544	
ADR / RID (LAND):	N/A	
DOT regulations:	UN number: 1544	
	Class: 6.1	
	Packing group: III	
	Proper shipping name: Alkaloids, solid, n.o.s. ((S)-(+)-Camptothecin)	
	Poison Inhalation Hazard: No	
IMDG/IMO (SEA):	UN number: 1544	
	Class: 6.1	
	Packing group: III	
	EMS-No: F-A, S-A	
	Proper shipping name: ALKALOIDS, SOLID, N.O.S. ((S)-(+)-	
	Camptothecin)	
IATA/DGR (AIR):	UN number: 1544	
	Class: 6.1	
	Packing group: III	
	Proper shipping name: Alkaloids, solid, n.o.s. ((S)-(+)-Camptothecin)	
Special Provisions:	N/A	

SECTION 15: Regulatory Information		
Health Phrases:	H301 Toxic 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: No products were found	
	California Proposition 65: No products were found	
	New Jersey State Right to Know: Listed	
	Pennsylvania 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	
	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. 3)
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.