

Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Clavulanate Potassium	
Product #:	C-2647	
Synonyms:	(2R,3Z,5R)-3-(2-hydroxyethylidene)-7-oxo-4-oxa-1- azabicyclo[3.2.0]heptane-2-carboxylic acid, monopotassium salt; BRL 14151K	
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
Clavulanate Potassium	61177-45-5	262-640-9	

Symbols Symbols

HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
1	4	0	0

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
0	4	0

Section 4: First 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 and to be sure call for a doctor. In case of unconsciousness
	place patient stably in side position for transportation
Skin:	Immediately wash with water and soap and rinse thoroughly.
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	Combustible	
the product:		
Extinguishing	Use firefighting measures that suit the environment. A solid water stream may	
Media:	be inefficient	
Hazardous	No data available	
thermal		
(de)composition		
products:		
Special Fire	No special measures required.	
Fighting		
Procedures:		
Flash Point:	No data available	

Section 6: Accidental Release Measures		
Personal	Wear protective equipment. Keep unprotected persons away.	
Precautions:		
Environmental	Do not allow to enter sewers/surface or ground water.	
Precautions:		
Methods for	Dispose contaminated material as waste according to item 13. Ensure	
Clean-up:	adequate ventilation.	

SECTION 7:	Handling & Storage
Storage:	Recommended storage temperature: -20°C
Handling:	Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away. Do not smoke.

SECTION 8: Expos	ure controls / Personal Protection
Respiratory Protection:	



Skin and Body:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.	
	Protective gloves. Protective lab coat.	
Eyes:	Not required.	
Ventilation/Engineering	Keep away from foodstuffs, beverages and feed. Immediately	
Measures:	remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work	
Hygiene:	The usual precautionary measures for handling chemicals should be followed.	
Other:	N/A	

SECTION 9:	Physical and Chemical Properties
Appearance &	Crystalline. Characteristic odor.
Odor:	
Formula	C ₈ H ₈ NO ₅ • K
Molecular Wt.	237.3
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, PBS, DMF
Flash Point:	No data available
Autoignition	No data available
Temp:	

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

SECTION 11: To	xicological Information
RTECS#:	RN6802700
ACUTE Toxicity:	Oral LD50 = 4,526 mg/kg (mouse) Oral LD50 = 7,936 mg/kg (rat) Intraperitoneal LD50 = 1,531 mg/kg (mouse) Intraperitoneal LD50 = 1,399 mg/kg (rat) Subcutaneous LD50 = 2,185 mg/kg (mouse) Subcutaneous LD50 = 1,398 mg/kg (rat)
CHRONIC Toxicity:	Sensitization possible through inhalation and skin contact.
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: Ed	cological 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	No data available
degradability:	
Bioaccumulative	No data available
potential:	
Other adverse	No data available
effects:	
Corrosivity	No data available
Characteristic:	
General Notes:	No data available

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#:	UN1325
ADR / RID (LAND):	N/A
DOT regulations:	Flammable solids, organic, n.o.s. (Clavulanate (potassium salt)) Class: 4.1 Flammable solids, self-reactive substances and solid desensitized explosives Label: 4.1
	Quantity Limitations:
	On passenger aircraft/rail: 15 kgOn cargo aircraft only: 50 kg
IMDG/IMO (SEA):	FLAMMABLE SOLID, ORGANIC, N.O.S. (Clavulanate (potassium salt)) Class: 4.1 Flammable solids, self-reactive substances and solid desensitized explosives Label: 4.1
	Limited Quantities (LQ): 1 kg Excepted Quantities (EQ): Code E2 • Maximum net quantity per inner packaging: 30 g • Maximum net quantity per outer packaging: 500 g
IATA/DGR (AIR):	Flammable solid, organic, n.o.s. (Clavulanate (potassium salt)) Class: 4.1 Flammable solids, self-reactive substances and solid desensitized explosives Label: 4.1



	Remarks: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
Special Provisions:	Warning: Flammable solids, self-reactive substances and solid desensitized explosives. Hazard identification number (Kemler code): 40 EMS Number: F-A,S-G Stowage Category: B Segregation Code: SG72

SECTION 15: I	Regulatory Information
Health Phrases:	Danger! H228 Flammable solid. H252 Self-heating in large quantities; may catch fire. H302 Harmful if swallowed. H334 May cause allergy or asthma symptoms or breathing difficulties if
	inhaled. H317 May cause an allergic skin reaction.
Risk Phrases:	P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P235+P410 Keep cool. Protect from sunlight. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. 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. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 [In case of inadequate ventilation] wear respiratory protection.
Safety Phrases:	P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P330 Rinse mouth. P302+P352 If on skin: Wash with plenty of water. P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatment (see on this label). P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P407 Maintain air gap between stacks/pallets. P413 Store bulk masses greater than 50 lbs at temperatures not exceeding 122°F.



	P420 Store away from other materials.
	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 (CWA) 311. No products were round. 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: Flammable solids (Cat. 2), Self-heating substances and mixtures
	(Cat. 2), Sensitization - respiratory (Cat. 1), Acute toxicity - oral (Cat. 4),
	Sensitization - skin (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.