

## Safety Data Sheet

### Section 1: Product & Company Identification

<b>Product Name:</b>	Penicillin V Potassium Salt
<b>Product #:</b>	P-2833
<b>Synonyms:</b>	(2S,5R,6R)-3,3-dimethyl-7-oxo-6-[(2-phenoxyacetyl)amino]-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, monopotassium salt
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

### Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Penicillin V Potassium Salt	132-98-9	205-086-5	≥98

### Section 3: Hazards Identification

<b>Symbols</b>	
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#### HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
1	*	0	0

#### NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
1	0	0

### Section 4: First Aid Measures

<b>General Overview:</b>	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
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<b>Inhalation:</b>	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
<b>Skin:</b>	Immediately wash with water and soap and rinse thoroughly.
<b>Eyes:</b>	Rinse opened eyes for several minutes under running water.
<b>Ingestion:</b>	Immediately call a doctor.
	See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	No data available
<b>Extinguishing Media:</b>	Use firefighting measures that suit the environment. A solid water stream may be inefficient.
<b>Hazardous thermal (de)composition products:</b>	No data available
<b>Special Fire Fighting Procedures:</b>	No special measures required
<b>Flash Point:</b>	No data available

## Section 6: Accidental Release Measures




<b>Personal Precautions:</b>	Not required
<b>Environmental Precautions:</b>	Do not allow to enter sewers/ surface or ground water.
<b>Methods for Clean-up:</b>	Dispose contaminated material as waste according to section 13.

## SECTION 7: Handling & Storage

<b>Storage:</b>	Recommended storage temperature: -20°C
<b>Handling:</b>	Ensure good ventilation/exhaustion at the workplace.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	
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	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.
<b>Skin and Body:</b>	  Protective gloves and lab coat.
<b>Eyes:</b>	 Not required
<b>Ventilation/Engineering Measures:</b>	Ensure adequate ventilation.
<b>Hygiene:</b>	Follow standard good industrial hygiene.
<b>Other:</b>	Contains no substances with occupational exposure limit values.

## SECTION 9: Physical and Chemical Properties

<b>Appearance &amp; Odor:</b>	Solid. Characteristic odor.
<b>Formula</b>	$C_{16}H_{17}N_2O_5S \cdot K$
<b>Molecular Wt.</b>	388.5
<b>Melting Pt.</b>	No data available
<b>Boiling Pt.</b>	No data available
<b>Density:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Solubility:</b>	PBS [pH 7.2] (10 mg/mL)
<b>Flash Point:</b>	No data available
<b>Autoignition Temp:</b>	No data available

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	No decomposition if used according to specifications.
<b>Hazardous decomposition products:</b>	Carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides
<b>Materials to Avoid:</b>	Oxidizing agents
<b>Conditions to avoid:</b>	No data available

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	XH9275000
<b>ACUTE Toxicity:</b>	<p>Oral LD50 &gt;1,040 mg/kg (rat)            LD50 &gt;4 g/kg (mouse)            Intraperitoneal LD50 1,351 mg/kg (mouse)            1,750 mg/kg (rat)            Intravenous LD50 1,000 mg/kg (mouse)            Subcutaneous LD50 &gt;4 g/kg (mouse)</p> <p>Sensitization:            Sensitization possible through inhalation.            Sensitization possible through skin contact.</p>
<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:</b>	<p>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.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by AGGIH.</p> <p>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.</p> <p>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.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	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.
<b>Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available

<b>Bioaccumulative potential:</b>	No data available
<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	No data available

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
<b>Contaminated Packaging:</b>	Disposal must be made according to official regulations.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	N/A
<b>ADR / RID (LAND):</b>	Not regulated
<b>DOT regulations:</b>	Not regulated
<b>IMDG/IMO (SEA):</b>	Not regulated
<b>IATA/DGR (AIR):</b>	Not regulated
<b>Special Provisions:</b>	N/A

## SECTION 15: Regulatory Information

<b>Health Phrases:</b>	<p>Danger!</p> <p>H302 Harmful if swallowed.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H341 Suspected of causing genetic defects.</p>
<b>Risk Phrases:</b>	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P261 Avoid breathing dust/fume/gas/mist/vapors/spray</p> <p>P264 Wash thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P272 Contaminated work clothing must not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P284 [In case of inadequate ventilation] wear respiratory protection.</p>
<b>Safety Phrases:</b>	<p>P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.</p> <p>P330 Rinse mouth.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p>

	<p>P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P321 Specific treatment (see on this label).</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	<p>TSCA: Listed</p> <p>California Proposition 65: No products were found</p>
<b>U.S. Federal Regulations:</b>	<p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found.</p> <p>SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean Air Act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p> <p>OSHA: Sensitization – respiratory (Cat. 1); Germ cell mutagenicity (Cat. 2); Acute toxicity – oral (Cat. 4); Sensitization – skin (Cat. 1)</p>
<b>WHMIS (Canada):</b>	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.*