

**Section 1: Identification**

**Product Name** Albendazole USP  
**Commercial Name** Not available.  
**Product Use** Not available  
**Restrictions On Use** Not available  
**Product Code** 30-1763  
**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

**Section 2: Hazard(s) Identification**

**OSHA Haz Com:** Reproductive toxicity Category 1  
**CFR 1910.1200**

**Signal Word** DANGER

**Hazard Statement(s)** Harmful if swallowed. May damage the unborn child. Very toxic to aquatic life.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.  
**Response** If exposed or concerned: Get medical advice/attention.  
**Storage** Store locked up  
**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Section 3: Composition/Information on Ingredients**

**Substance/Mixture** Substance  
**Components** Albendazole USP  
**% By Weight** 100  
**CAS#** 54965-21-8  
**Molecular Weight** 265.34 g/mole  
**Chemical Formula** C<sub>12</sub>H<sub>15</sub>N<sub>3</sub>O<sub>2</sub>S  
**Synonym(s)** Carbamic acid, (5-(propylthio)-1H-benzimidazol-2-yl), methyl ester

**Mixtures**

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
Albendazole USP	54965-21-8	100		ORAL (LD50): Acute: 2400 mg/kg [Rat]. 1500 mg/kg [Mouse]. 10000 mg/kg [Hamster].

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin Contact</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>Eye Contact</b>	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Pharmacologically active material. Occupational exposure may cause physiological effects.
<b>Delayed</b>	Pharmacologically active material. Occupational exposure may cause physiological effects.

**Immediate Medical Attention**

Provide general supportive measures and treat symptomatically. Treatment of albendazole overdose may include the following: Perform gastric lavage within the first 2 to 3 hours after ingestion to decrease absorption. Administer activated charcoal as a slurry. Maintain an open airway, respiration, and circulation. Monitor liver enzymes and complete blood count. Monitor for gastrointestinal abnormalities.

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Water. Foam. Dry chemical or CO<sub>2</sub>. Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable Extinguishing Media**

Not available

**Products of Combustion**

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

**Firefighters Special Equipment and Precautions**

Wear suitable protective equipment. Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.

**Section 6: Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation. Wear appropriate personal protective equipment. For personal protection, see section 8 of the SDS. Methods and materials for containment and cleaning up: For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

**Section 7: Handling and Storage**

Handling: As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Combustible dust clouds may be created where operations produce fine material (dust). Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits. TWA 0.3 mg/m <sup>3</sup> , 100 micrograms/m <sup>3</sup>
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**Engineering Controls**

For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

**Personal Protection**

**Eye/face protection:** Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. **Skin protection** **Hand protection:** Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. **Other:** Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. **Respiratory protection:** Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls. **Thermal hazards:** Wear appropriate thermal protective clothing, when necessary. **General hygiene considerations:** Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	White. Light yellow. Powder solid.		
<b>Odor</b>	Odorless		
<b>Odor Threshold</b>	Not available		
<b>Melting Point</b>	406.4 - 410 °F (208 - 210 °C)	<b>pH</b>	in aqueous solution 6.3 Suspension
<b>Freezing Point</b>	Not available	<b>Vapor Pressure</b>	< 0.0000001 kPa at 25 °C
<b>Boiling Point/Range</b>	Not available.	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Flash Point</b>	Not available.	<b>Autoignition temperature</b>	Not available
<b>Flammability</b>	Not available	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available
		<b>Upper</b>	Not available
<b>Solubility(ies)</b>	Practically insoluble in water.		
<b>Other</b>	Acetic acid: Soluble. Acetonitrile: Slightly soluble. Chloroform: Slightly soluble. Dimethyl sulfoxide: Soluble. Ethyl acetate: Slightly soluble. Formic acid: Anhydrous: Freely soluble. Methanol: Slightly soluble. Strong acids: Soluble. Strong bases: Soluble Chemical family Benzimidazole carbamate. Dust explosion properties Kst 234 bar.m/s Minimum ignition energy (MIE) - dust cloud 18 - 20 mJ Molecular formula C <sub>12</sub> H <sub>15</sub> N <sub>3</sub> O <sub>2</sub> S Molecular weight 265.33		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport
<b>Chemical Stability</b>	Material is stable under normal conditions
<b>Hazardous Polymerization</b>	No dangerous reaction known under conditions of normal use
<b>Conditions to Avoid</b>	Contact with incompatible materials
<b>Incompatible Materials</b>	Not available.
<b>Hazardous Decomposition Products</b>	NOx. SOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions

**Section 11: Toxicological Information**

**RTECS** FD1100000

**Acute Toxicity**

Oral LD50 Rat 1320 - 2000 mg/kg, 2400 mg/kg

**Skin Corrosion/Irritation**

Not available

**Serious Eye Damage/Irritation**

Not available

**Respiratory or Skin Sensitization**

Not available

**Germ Cell Mutagenicity**

Not available

**Carcinogenicity**

Not available

**Reproductive Toxicity**

May damage fertility or the unborn child

**Routes of Entry**

Not available

**Symptoms Related to Exposure**

Dizziness. Headache. Weakness. Tiredness. Gastrointestinal disturbances.

**Potential Health Effects**

Pharmacologically active material. Occupational exposure may cause physiological effects

**Target Organ(s)**

Not available

**Section 12: Ecological Information****Ecotoxicity**

Aquatic Crustacea EC50 Daphnia magna 0.024 mg/l, 48 hours

**Persistence and Degradability**

Not available

**Bioaccumulative Potential**

Not available

**Mobility in Soil**

Not available

**Other Adverse Effects**

Not available

**Section 13: Disposal Considerations****Waste Disposal**

Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Disposal of Container**

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**Other Considerations**

Not available

**Section 14: Transport Information****DOT Classification**

DOT UN number: UN3077 UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Albendazole) Transport hazard class(es) Class 9 Subsidiary risk - Packing group III

**Section 15: Regulatory Information****Regulations**

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Hazard categories SARA 302 Extremely hazardous substance Not listed. YesSARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Not regulated. Safe Drinking Water Act (SDWA) California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**Other**

Not available.



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Albendazole USP

30-1763

### Section 16: Other Information

The above information is accurate to the best of our knowledge and shall describe our product under the aspect of safety. They are not meant to guarantee specific properties of the product. The existing regulations are to be observed by our customers at their own responsibility.