

**Section 1: Identification**

**Product Name** Epinephrine USP  
**Commercial Name** N/A  
**Product Use** Manufacture of pharmaceutical products  
**Restrictions On Use** N/A  
**Product Code** 30-5014  
**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:** Acute toxicity, Oral (Category 1) Acute toxicity, Inhalation (Category 1) Acute toxicity, Dermal (Category 2)  
**CFR 1910.1200** Chronic aquatic toxicity (Category 3)  
**Signal Word** DANGER  
**Hazard Statement(s)** FATAL IF SWALLOWED. FATAL IF IN CONTACT WITH SKIN. FATAL IF INHALED. HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.  
**Pictogram(s) or Symbol(s)**

**Precautionary Statement(s):**

**Prevention** P261 Avoid breathing dust/fume/gas/mist/vapours/spray P280 Wear protective gloves/ protective clothing  
**Response** P302+P350 IF ON SKIN: Gently wash with plenty of soap and water. P310 Immediately call a POISON CENTER/doctor  
**Storage** Not available.  
**Disposal** Not available.

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

**Substance/Mixture** Substance  
**Components** Epinephrine  
**% By Weight** 100  
**CAS#** 51-43-4  
**Molecular Weight** 183.21  
**Chemical Formula** C9H13NO3  
**Synonym(s)** Not available

**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Epinephrine	51-43-4	100	N/A	N/A

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Move to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen
<b>Skin Contact</b>	Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician;
<b>Eye Contact</b>	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician
<b>Ingestion</b>	Wash out mouth with water provided person is conscious. Call a physician immediately.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Cough, shortness of breath, headache, nausea, vomiting, sweating
<b>Delayed</b>	Cough, shortness of breath, headache, nausea, vomiting, sweating
<b>Immediate Medical Attention</b>	Not available.

**Section 5: Fire-Fighting Measures**

<b>Suitable Extinguishing Media</b>	Water spray. Carbon Dioxide, dry chemical powder, or appropriate foam.
<b>Unsuitable Extinguishing Media</b>	Not available.
<b>Products of Combustion</b>	Carbon oxides, Nitrogen oxides, Hydrogen chloride gas
<b>Firefighters Special Equipment and Precautions</b>	Wear self-contained breathing apparatus for firefighting if necessary

**Section 6: Accidental Release Measures**

Person-related safety precautions: Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Environment precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up: 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.

**Section 7: Handling and Storage**

Information for safe handling: Ensure good ventilation at the workshop and store in cool, dry place in tightly closed containers. Conditions for safe storage, including any incompatibilities: information about storage in one common storage facility: packed in alum foil in vacuum; Further information about storage conditions: Store in cool, dry condition and keep from light.

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

<b>Exposure Limits</b>	Not available
<b>Engineering Controls</b>	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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**Personal Protection**

Eye/face protection: 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). Skin protection: 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 the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Body protection: 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. Respirator protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)/ Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (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. Control of environment exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	solid, a white or almost white crystalline powder		
<b>Odor</b>	n/a		
<b>Odor Threshold</b>	n/a		
<b>Melting Point</b>	n/a	<b>pH</b>	n/a
<b>Freezing Point</b>	n/a	<b>Vapor Pressure</b>	n/a
<b>Boiling Point/Range</b>	n/a	<b>Vapor Density</b>	n/a
<b>Decomposition temperature</b>	n/a	<b>Viscosity</b>	n/a
<b>Partition Coefficient: n-octanol/water</b>	n/a	<b>Evaporation Rate</b>	n/a
<b>Flash Point</b>	n/a	<b>Autoignition temperature</b>	n/a
<b>Flammability</b>	n/a	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	n/a
		<b>Upper</b>	n/a
<b>Solubility(ies)</b>	n/a		
<b>Other</b>	n/a		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	N/A
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization</b>	N/A
<b>Conditions to Avoid</b>	Light and oxygen
<b>Incompatible Materials</b>	Acids, acid chlorides, acid anhydrides, oxidizing agents
<b>Hazardous Decomposition Products</b>	N/A

**Section 11: Toxicological Information****RTECS** N/A**Acute Toxicity**  
N/A**Skin Corrosion/Irritation**  
N/A**Serious Eye Damage/Irritation**  
N/A**Respiratory or Skin Sensitization**  
N/A**Germ Cell Mutagenicity**  
N/A**Carcinogenicity**  
IARC: No component of this product present at levels greater than equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**Reproductive Toxicity**  
N/A**Routes of Entry**  
N/A**Symptoms Related to Exposure**  
N/A

**Potential Health Effects**

N/A

**Target Organ(s)** N/A**Section 12: Ecological Information****Ecotoxicity**

N/A

**Persistence and Degradability**

N/A

**Bioaccumulative Potential**

N/A

**Mobility in Soil**

N/A

**Other Adverse Effects**

N/A

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

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of the material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Disposal of Container**

Disposes of as unused product

**Other Considerations**

N/A

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

UN number ADR/RID: 2811 IMDG: 2811 IATA: 2811 UN proper shipping name ADR/RID: Toxic solid, Organic, N.O.S. Epinephrine IMDG: Toxic solid, Organic, N.O.S. Epinephrine IATA: Toxic solid, Organic, N.O.S. Epinephrine Transport hazard class (es) ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1 Packaging group ADR/RID: II IMDG: II IATA: II Environmental hazards ADR/RID: no IMDG: no IATA: no

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

Safety, health and environment regulations/legislation specific for the substance or mixture The safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Other**

N/A

**Section 16: Other Information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.