Safety Data Sheet

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

Section 1: Identification

Product Name Pyrimethamine USP
Commercial Name Not available.
Product Use Not available.
Restrictions On Use Not available.

Product Code 30-3122

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: CFR 1910.1200 Acute toxicity, (Category 4) H302

Signal Word WARNING

Hazard Statement(s) Hamrful if swallowed.

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. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Immediately call a poison center/doctor. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. 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 Pyrimethamine USP
% By Weight 100
CAS# 58-14-0
Molecular Weight Not available
Chemical Formula Not available
Synonym(s) Not available.

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Pyrimethamine USP	58-14-0	100	N/A	N/A

Section 4: First-Aid Measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin Contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye Contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if substance is ingested. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Symptoms/Effects

Acute Pharmacologically active material. Occupational exposure may cause physiological effects.

Delayed Pharmacologically active material. Occupational exposure may cause physiological effects.

Immediate Medical Attention

Treat symptomatically. Administer activated charcoal as a slurry. Perform gastric lavage. Folinic acid should be administered within two hours of ingestion to be most effective in counteracting the effects on the hematpoietic system. For seizures, administer intravenous diazepam or lorazepam. If seizures recur, administer phenobarbital or propofol. Due to the long half-life of this material, daily monitoring of peripheral blood counts is recommended for up to several weeks until normal hematological values are restored. Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water. Foam. Dry chemical or CO2. 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

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

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. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. Wear appropriate protective equipment and clothing during clean-up. 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. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

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. 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

Exposure Limits	Exposure limit values Industrial Use Material: Pyrimetham ine (CAS 58-14-0) Type: TWA Value: 7 micrograms/m3
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 - 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. Hand protection 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 - 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

Appearance	White solid powder
Odor	Odorless
Odor Threshold	Not available.

Melting Point	451.4 - 453.2 °F (233 - 234 °	**pH**	Not available.
Freezing Point	460.4 - 467.6 °F (238 - 242 °	**Vapor Pressure**	< 0.0000001 kPa at 25 °C
Boiling Point/Range	Not available.	**Vapor Density**	Not available.
Decomposition temperature	Not available.	**Viscosity**	Not available.
Partition Coefficient: n-octanol/water	-2.7	**Evaporation Rate**	Not available.
Flash Point	Not available.	**Autoignition temperature**	Not available.
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	Not available.
		Upper	Not available.

Solubility(ies)	Practically insoluble
Other	Chemical family Pyrimidine derivative. Dust explosion properties Kst 203 bar.m/s Minimum ignition energy (MIE) - dust cloud 31 - 41 mJ Molecular formula C12H13ClN4 Molecular weight 248.71

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions.
Hazardous Polymerization	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Contact with incompatible materials.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	NOx. Cl-. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

Section 11: Toxicological Information

RTECS Not available

Acute Toxicity
Toxic if swallowed. LD50 Mouse 92 mg/kg Rat 440 mg/kg 128 mg/kg

Skin Corrosion/Irritation
Based on available data, the classification criteria are not met

Serious Eye Damage/Irritation
Causes serious eye irritation.

Respiratory or Skin Sensitization
Not available.

Germ Cell Mutagenicity
May cause genetic defects

Carcinogenicity
Based on available data, the classification criteria are not met.

Reproductive Toxicity
May damage fertility or the unborn child. This material is a folic acid antagonist and interferes with embryo development in experimental animals.

Routes of Entry
Not available.

Symptoms Related to Exposure
Not available.

Potential Health Effects
Not available.

Target Organ(s) Not available.

Section 12: Ecological Information

Ecotoxicity
Pyrimethamine (CAS 58-14-0) Aquatic Crustacea EC50 Water flea (Daphnia magna) 4.1 - 5.6 mg/l, 48 hours

Persistance and Degradability
Not available.

Bioaccumulative Potential
Octanol/water partition coefficient log Kow -2.7

Mobility in Soil
Not available.

Other Adverse Effects
Not available.

Section 13: Disposal Considerations

Waste Disposal
Dispose of contents/container in accordance with local/regional/national/international 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. 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: UN2811 UN proper shipping name: Toxic solid, organic, n.o.s. (Pyrimethamine) Class 6.1 Packing Group: III

Section 15: Regulatory Information

Regulations
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 1910.1001-1052): Not regulated. Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance: Not listed SARA 311/312 Hazardous: Yes chemical Combustible dust Acute toxicity (any route of exposure) Serious eye damage or eye irritation Germ cell mutagenicity Reproductive toxicity SARA 313 (TRI reporting): Not regulated.

Other
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. Safe Drinking Water Act (SDWA): Not regulated. US state regulations California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. California Proposition 65 - CRT: Listed date/Developmental toxin Pyrimethamine (CAS 58-14-0) Listed: January 29, 1999

Section 16: Other Information

Not available.