

**Section 1: Identification**

**Product Name** Methotrexate USP  
**Commercial Name** Amethopterin, Amethopterine, Antifolin, Methotrexat,  
**Product Use** Not available.  
**Restrictions On Use** Not available.  
**Product Code** 55-1565  
**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 3 Serious eye damage/eye irritation Category 2A Germ cell mutagenicity  
**CFR 1910.1200** Category 2 Reproductive toxicity Category 1 Specific target organ toxicity, repeated exposure Category 1 (bone marrow)  
**Signal Word** DANGER  
**Hazard Statement(s)** Toxic if swallowed. Causes serious eye irritation. Suspected of causing genetic defects. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

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

**Precautionary Statement(s):**

**Prevention** Not available.  
**Response** Not available.  
**Storage** Not available.  
**Disposal** Not available.

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

**Substance/Mixture** Substance  
**Components** Methotrexate USP  
**% By Weight** 100  
**CAS#** 59-05-2  
**Molecular Weight** 454.44 g/mole  
**Chemical Formula** C<sub>20</sub>H<sub>22</sub>N<sub>8</sub>O<sub>5</sub>  
**Synonym(s)** 4-Amino-4-deoxy-N(sup 10)-methylpteroylglutamate; 4-Amino-4-deoxy-N(sup 10)-methylpteroylglutamic acid; 4-Amino-N(sup 10)-methylpteroylglutamic acid

**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
1) Methotrexate UPS	59-05-2	100	Not Available.	ORAL (LD50): Acute: 135mg/kg [Rat]. 146 mg/kg[Mouse].

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Allow the victim to rest in a well ventilated area. Seek immediate medical attention. Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. <b>SERIOUS SKIN CONTACT:</b> In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion</b>	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available.
<b>Delayed</b>	Not available.
<b>Immediate Medical Attention</b>	Not available.

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

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.

**Unsuitable Extinguishing Media**

Do not use water jet

**Products of Combustion**

These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

**Firefighters Special Equipment and Precautions**

Normal precautions against smoke inhalation. Dust explosion. hazard. Avoid conditions of ignition at higher dust concentrations.

**Section 6: Accidental Release Measures**

SMALL SPILL: Use appropriate tools to put the spilled solid in a convenient waste disposal container. LARGE SPILL: Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

**Section 7: Handling and Storage**

Handling: Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids. Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 6°C (42.8°F). Refrigerate at 2 - 6 degrees C. Sensitive to light. Store in light-resistant containers.

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

<b>Exposure Limits</b>	Not available.
<b>Engineering Controls</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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**Personal Protection**

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.  
Gloves. Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots.  
Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.  
Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Powder. Orange yellow.		
<b>Odor</b>	Odorless.		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	192°C	<b>pH</b>	Not available.
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	Not applicable.
<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>	Insoluble in cold water, hot water, diethyl ether. Soluble in dilute solutions of alkali hydroxides, and carbonates. Slightly soluble in hydrochloric acid. Insoluble in alcohol and chloroform.		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical Stability</b>	The product is stable.
<b>Hazardous Polymerization</b>	Corrosivity: Non-corrosive in presence of glass. Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	High temperature; high humidity and light.
<b>Incompatible Materials</b>	Oxidizing substances.
<b>Hazardous Decomposition Products</b>	Not available.

**Section 11: Toxicological Information**

<b>RTECS</b>	MA1225000
<b>Acute Toxicity</b>	ORL-RAT LD50 135 mg/kg; SCU-RAT LD50 58 mg/kg; Intraspinal-WN4N LDLO 36 mg/kg/15d
<b>Skin Corrosion/Irritation</b>	Not available.
<b>Serious Eye Damage/Irritation</b>	Not available.
<b>Respiratory or Skin Sensitization</b>	Not available.
<b>Germ Cell Mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.
<b>Reproductive Toxicity</b>	Not available.
<b>Routes of Entry</b>	Inhalation. Ingestion.

**Symptoms Related to Exposure**

Not available.

**Potential Health Effects**

Not available.

**Target Organ(s)**

Not available.

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

Not available.

**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**

May be disposed of in accordance with local regulations.

**Disposal of Container**

Not available.

**Other Considerations**

Not available.

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

DOT CLASS 6.1: Poisonous material. : Toxic solid, organic, n.o.s. (Methotrexate) : UN2811 PG: III

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

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: NONE Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: NONE; Pennsylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: NONE Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are: Methotrexate Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are: NONE; California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Methotrexate

**Other**

WHMIS CLASS D-1B: Material causing immediate and (Canada) serious toxic effects (TOXIC); DSCL (EEC) R25- Toxic if swallowed. R36/38- Irritating to eyes and skin.; Gloves.; Lab coat.; Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.; Splash goggles.

**Section 16: Other Information**

The above information is believed to be correct but is not purported to be all inclusive and shall be used as a guide. CLIP shall not be held liable for any damage resulting from handling or from contact with. the above product.