

**Safety Data Sheet**

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

**Section 1: Identification**

**Product Name** Manganese Chloride USP Tetrahydrate  
**Commercial Name** Not available.  
**Product Use** Laboratory chemicals, Manufacture of substances  
**Restrictions On Use** Not available.  
**Product Code** 30-1521  
**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:** GHS Classification Acute toxicity, Oral (Category 4)  
**CFR 1910.1200**

**Signal Word** WARNING

**Hazard Statement(s)** Harmful if swallowed

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



**Precautionary Statement(s):**

**Prevention** Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.  
**Response** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  
**Storage** Not available.  
**Disposal** Dispose of contents/container to an approved waste disposal plant.

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

**Substance/Mixture** Substance  
**Components** Manganese Chloride USP Tetrahydrate  
**% By Weight** 100  
**CAS#** 13446-34-9  
**Molecular Weight** 197.9 g/mole  
**Chemical Formula** MnCl<sub>2</sub>·4H<sub>2</sub>O  
**Synonym(s)** Manganese(II) chloridetetrahydrate

**Mixtures**

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
Manganese Chloride USP Tetrahydrate	13446-34-9	100	TWA: 1 STEL: 3 (mg/m <sup>3</sup> ) from ACGIH	ORAL (LD50):Acute: 1454mg/kg [Rat].

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**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove to fresh air.
<b>Skin Contact</b>	Wash skin with soap and water.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available
<b>Delayed</b>	Not available.
<b>Immediate Medical Attention</b>	
Treat symptomatically.	

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Large Fire CAUTION: Use of water spray when fighting fire may be inefficient

**Unsuitable Extinguishing Media**

Do not scatter spilled material with high pressure water streams.

**Products of Combustion**

If it is involved in a fire the following can be released: hydrogen chloride gas. Manganese oxides. Manganese.

**Firefighters Special Equipment and Precautions**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Section 6: Accidental Release Measures**

Personal precautions: Ensure adequate ventilation. Methods for containment: Prevent further leakage or spillage if safe to do so. Methods for cleaning up: Pick up and transfer to properly labeled containers.

**Section 7: Handling and Storage**

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

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

<b>Exposure Limits</b>	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.
<b>Engineering Controls</b>	Showers Eyewash stations Ventilation systems.
<b>Personal Protection</b>	Eye/face protection No special protective equipment required. Skin and body protection No special protective equipment required. Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Crystalline - pink; light red		
<b>Odor</b>	Odorless		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	58 °C / 136.4 °F	<b>pH</b>	4.0 - 6 at 99 g/l at 25 °C
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	Not applicable.
<b>Boiling Point/Range</b>	1190°C (2174°F)	<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 applicable.	<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>	Easily soluble in cold water. Water solubility 99 g/l at 20 °C (68 °F) - completely soluble		
<b>Other</b>	Density 1.913 g/cm3		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Hazardous Polymerization</b>	None under normal processing.
<b>Conditions to Avoid</b>	Not available.
<b>Incompatible Materials</b>	Not available
<b>Hazardous Decomposition Products</b>	Not available.

**Section 11: Toxicological Information****RTECS** OO9625000**Acute Toxicity**

Oral LD50 = 1484 mg/kg ( Rat )

**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**

Not available.

**Routes of Entry**

Ingestion.

**Symptoms Related to Exposure**

Not available.

**Potential Health Effects**

Not available.

**Target Organ(s)** kidney, respiratory system, central nervous system, blood.**Section 12: Ecological Information****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**Persistence and Degradability**

Not available.

**Bioaccumulative Potential**

Inherently biodegradable.

**Mobility in Soil**

Not available.

**Other Adverse Effects**

Not available.

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

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Disposal of Container**

Do not reuse empty containers.

**Other Considerations**

Not available.

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

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

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

TSCA Not listed Note \*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements DSL/NDSL Does not Comply EINECS/ELINCS Does not Comply ENCS This product complies with ENCS: IECSC This product complies with China: KECL Does not Comply PICCS Complies AICS All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

**Other**

Not available.

**Section 16: Other Information**

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