



## MATERIAL SAFETY DATA SHEET

### CCD PIPERAZINE

MSDS Version: 1 Date: 14<sup>th</sup> July 2003

**EMERGENCY NUMBER: 1300 666 638**

Work Safe Hazard Assessment: Classified as hazardous according to criteria of Worksafe Australia.

#### **1. IDENTIFICATION**

Product Name:	CCD Piperazine
Other Names:	Piperazine dihydrochloride
Product Code:	4616
UN Number:	None allocated
Dangerous Goods Class:	None allocated
Sub Risk Class:	None allocated
Hazchem Code:	None allocated
<b>Poison Schedule:</b>	<b>None</b>
Product Type:	Anthelmintic
Chemical Family:	
Uses:	Treatment of roundworm in poultry through the drinking water.

#### **Physical Description/Properties**

Appearance:	White crystalline powder
Boiling/Melting Point:	Melting point 335 – 340°C
Vapour Pressure:	Negligible
Specific Gravity:	Not available
Flashpoint:	Not available
Flammability Limits:	Not available
Solubility in Water:	Soluble in water

#### **Other Properties**

#### **Ingredients**

Chemical Name	CAS Number	Proportion
Piperazine citrate	142-64-3	53%
Non-hazardous carrier		to 100%

## **2. HEALTH HAZARD INFORMATION**

### **Health Effects**

#### **Acute Effects**

**Swallowed:** material is moderately discomforting to the gastro-intestinal tract and may be harmful if swallowed in large quantities. Side effects include nausea, vomiting, diarrhea, abdominal pain, headache, and urticaria. In some cases severe neurotoxicity has occurred with symptoms including dizziness, muscular incoordination and weakness, convulsions and loss of reflexes.

**Eye:** highly discomforting to the eyes and is capable of causing a mild, temporary redness of the conjunctiva, temporary impairment of vision and/or other transient eye damage.

**Skin:** extremely discomforting to the skin and maybe capable of causing allergic skin reactions. Prolonged exposure may cause chemical burns.

**Inhaled:** dust maybe discomforting to the upper respiratory tract. Respiratory sensitization may result in allergic/asthma like responses from coughing and minor breathing difficulties to bronchitis with wheezing, gasping.

#### **Chronic Effects:**

Sensitization may give severe responses to very low exposure, i.e. hypersensitivity. Sensitized people should not be allowed to work in situations where exposure may occur.

#### **First Aid**

If poisoning occurs contact a doctor or Poisons Information Centre 13 1126 Australia wide.

**Swallowed:** immediately give a glass of water. First aid generally not required. If in doubt contact a doctor.

**Eye:** wash out with fresh water. Ensure complete irrigation by holding eyelid open.

**Skin:** immediately remove all contaminated clothing. Wash skin and hair with soap and water.

**Inhaled:** remove from contaminated area. If irritation or discomfort persists, seek medical advice.

#### **Advice to Doctor:**

Treat symptomatically.

### **3. PRECAUTIONS FOR USE**

#### **Exposure Standards:**

Orally administered piperazine salts do not produce substantial pharmacological activity in most individuals. Exposure to the dihydrochloride has resulted in skin burns, sensitization and asthma. Exposure at or below the recommended TLV-TWA of 5mg/m<sup>3</sup> is thought to minimise the potential for systemic toxicity but may not prevent sensitization.

#### **Engineering Controls:**

General exhaust is adequate under normal operating conditions. Provide adequate ventilation in warehouse or closed storage areas.

#### **Personal Protection:**

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. Always wash hands before smoking, catering or using the toilet.

**Respiratory:** a facemask or respirator may be used. Consult AS/NZS 1715 for guidelines.

**Skin:** Gloves should be worn. Consult AS 2161 for guidelines. Protective clothing should be worn as good industrial practice. Consult AS 2919 for guidelines.

**Eyes:** safety goggles are recommended. Consult AS1336 & AS/NZS 1337 for guidelines.

**Flammability:** not flammable.

### **4. SAFE HANDLING INFORMATION**

#### **Storage & Transport:**

Store in original containers and keep securely sealed. Store in a dry, cool, well-ventilated area. Keep ignition sources away. There are no special transport requirements for this product.

#### **Spills & Disposal:**

Prevent spillages from entering drains and watercourses. As a minimum, wear overalls, goggles and gloves. Stop leak if safe to do so and contain spill. Sweep and shovel or collect recoverable material into labelled containers for disposal or reuse. Wash area, preventing runoff from entering drains. This material may be suitable for approved landfill. Dispose of in compliance with local, state and federal regulations. Launder all contaminated clothing before reuse.

**Fire/Explosion Hazard:**

There is no explosion hazard from this material under normal circumstances.

Fire/explosion hazards: Solid material, which is difficult to ignite, or combust. May form flammable or explosive dust clouds in air.

Decomposition products: carbon monoxide, nitrogen oxides, hydrogen chloride gas, and chlorides, water.

Materials to avoid: strong oxidizing agents.

Polymerization: will not polymerize.

Extinguishing media: use carbon dioxide, foam, and dry chemical or water fog.

Fire fighting procedure: as a minimum, wear overalls, goggles and gloves.

**5. OTHER INFORMATION**

This MSDS is prepared in accordance with the NOHSC “National Code of Practice for the Preparation of Material Safety Data Sheets”. [NOHSC: 2011(1994)].

**Contact Points:**

Pacific Resources International 02 – 9908 5388

Police & Fire Brigades 000

National Poisons Information Centre 13 1126 (Australia wide)