



**MATERIAL SAFETY DATA SHEET**

Calci-Solve

**I - PRODUCT IDENTIFICATION**

# 263798

Company Name: Nu-Calgon Wholesalers, Inc.  
 Address: 2008 Altam Court  
 St. Louis, MO 63146-4151

Tel No: (314) 469-7000  
 (800) 554-6499  
 CHEMTREC: (800) 424-9300

Product Name: Calci-Solve  
 Synonyms: Acid-based pipe and drain cleaner

Product Number: 4134

**II - HAZARDOUS INGREDIENTS OF MIXTURES**

MATERIAL	CAS#	% By Wt	TLV	PEL
Hydrochloric Acid	7647-01-0	>30	5ppm*	N/A
Water	7732-18-5	<70		
Acid Inhibitor (proprietary)		<1		

<sup>Casing</sup>  
 Reportable for SARA Title III, 3.313 (Form R): Hydrochloric acid

**III - PHYSICAL DATA**

Vapor Pressure: 39 mm (Hg) Evaporation Rate: N/A Solubility in H <sub>2</sub> O: Complete Freezing Point F: N/A Boiling Point F: Est. 180 deg F Specific Gravity H <sub>2</sub> O=1 @25C: 1.16	Vapor Density (Air=1) 60-90F: N/A % Volatile by wt.: N/A pH @ Solution: N/A pH as Distributed: <1 Appearance: Red liquid Odor: muriatic acid
---	---

**IV - FIRE AND EXPLOSION**

Flash Point F: None to boiling Flammable Limits: Not flammable  
 Extinguishing Media: Product is not flammable  
 Special Fire Fighting Procedures: Avoid skin and eye contact, and breathing of acid vapors. Wear head and body protection and HCl respirator if exposure to liquid is likely  
 Unusual Fire and Explosion Hazards: NOTE: This product can react with metals to release hydrogen gas. Firemen may need to protect against this.

**V - REACTIVITY DATA**

Stability - Conditions to avoid: Product is stable -  
 Incompatibility: Strong alkalis, materials not resistant to strong acids, active metals (zinc, aluminum, magnesium, etc.).  
 Hazardous Decomposition Products: Hydrogen chloride vapors. Contact with active metals can release flammable gas  
 Conditions Contributing to Hazardous Polymerizations: Does not occur

~~Calci-Solve~~  
**VI - HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects).**

**A. ACUTE (Primary Route of Exposure) EYES & SKIN:** Corrosive to tissues. Causes burns to eyes and skin. **INGESTION:** Harmful if swallowed. Burns to mouth, throat, esophagus and stomach are likely. **INHALATION:** Mists may cause coughing and burning, irritation and inflammation to respiratory tract.

**B. SUBCHRONIC, CHRONIC, OTHER:**

**C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** Over exposure to product has the following effects: inhalation of vapors may cause pulmonary edema, collapse of circulatory system and damage to the upper respiratory system and collapse. Inhalation may cause coughing, throat burning, choking, bronchitis, and difficult breathing. Ingestion is harmful and may be fatal. Ingestion may cause burns.

**VII - EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** Remove to fresh air. Give artificial respiration or oxygen if needed, and contact a physician. **EYES: & SKIN:** In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before reuse. **INGESTION:** If swallowed, DO NOT induce vomiting. Give large quantities of water or milk. Call a physician immediately.

**VIII - SPILL OR LEAK PROCEDURE**

**Spill Management:** Small spills can be flushed into normal drainage or into round with copious amounts of water, or taken up with absorbent material. For large spills, dike area and contain as much spilled material as possible, absorbing with soda ash or sodium bicarbonate. Flush with water or absorb for collection and proper disposal.

**Waste Disposal Methods:** If neutralized, may be disposed in sewers if local regulations permit. Otherwise, send to licensed treatment and disposal facility. As supplied, this product is a RCRA hazardous waste.

**IX - PROTECTION INFORMATION/CONTROL MEASURES**

<b>Respiratory:</b> Wear approved HCl vapor/mist respirator if exposure is likely	<b>Eye:</b> Full face shield or goggles	<b>Glove:</b> Rubber
<b>Other Clothing and Equipment:</b> Wear acid-resistant protective gloves, boots and clothing. Provide convenient safety showers. Provide convenient eye wash stations		
<b>Ventilation:</b> Use with adequate ventilation		

**X - SPECIAL PRECAUTIONS**

**Precautions to be taken in Handling and Storing:** Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Wash thoroughly after handling. Keep from contact with chlorine bleaches. Check containers daily for leaks. Have wayer hoses and alkaline material (soda ash) convenient. Only use containers and equipment designed for acid service.

**Additional Information:** Areas of use and storage should be ventilated adequately to reduce vapors below odor level. Empty containers should be rinsed well before handling and disposal.

**NEPA**  
 Health Hazard.....: 3  
 Fire Hazard.....: 0  
 Reactivity.....: 0  
 Specific Hazard....:

**HMS RATING**  
 Health Hazard.....: 3  
 Fire Hazard.....: 0  
 Reactivity.....: 0  
 Personal Protection...: X (Sec. 9)

Revision Date: 02/20/98

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions. While Seller believes that the information contained herein is accurate, such information is offered solely for its customers' consideration and verification under their specific use conditions.