



## MATERIAL SAFETY DATA SHEET

### Liquid Scale Dissolver

#### I - PRODUCT IDENTIFICATION

**Company Name:** Nu-Calgon Wholesaler, Inc.  
**Address:** 2008 Altom Court, St. Louis, MO 63146-4151  
**Product Name:** Liquid Scale Dissolver  
**Synonyms:** Acidic Solution

**Tel No:** (314) 469-7000, (800) 554-5499  
**CHEMTREC:** (800) 424-9300  
**Product Number:** 4330

#### II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Hydrochloric Acid (ORAL LD50 - Rabbit 900mg/kg)	7647-01-0	26	5ppm (ceiling)	5ppm
Water	7732-18-5	74		

All ingredients are TSCA listed.

#### III - PHYSICAL DATA

**Vapor Pressure:** mm Hg: Unknown  
**Evaporation Rate:** (ether=1): Not Applicable  
**Solubility in H<sub>2</sub>O:** Complete  
**Freezing Point °F:** N/A  
**Boiling Point °F:** >212°  
**Specific Gravity H<sub>2</sub>O=1 @25° C:** 1.095 - 1.125

**Vapor Density (Air=1) 60-90° F:** Unknown  
**VOC Content (% by wt.):** 0.45%  
**pH @ Solution:** N/A  
**pH as Distributed:** <1  
**Appearance:** Clear orange-color liquid.  
**Odor:** Sharp odor.

#### IV - FIRE AND EXPLOSION

**Flash Point F:** Non flammable **Flammable Limits:** N/A  
**Extinguishing Media:** Product is non flammable. Use water spray to cool fire.  
**Special Fire Fighting Procedures:** In the event of fire, wear full protective clothing and NIOSH - approved self-contained breathing apparatus.  
**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:** None known.  
**Incompatibility:** Bases, strong oxidizers and metals.  
**Hazardous Decomposition Products:** Contact with metals may generate Hydrogen, which can be explosive.  
**Conditions Contributing to Hazardous Polymerizations:** None known.

#### 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 and stomach are likely. **INHALATION:** Mists may cause coughing and irritation to respiratory tract.  
**B. SUBCHRONIC, CHRONIC, OTHER:** No available information was found.  
**C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:**

#### VII - EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** Remove to fresh air 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. Call a physician immediately.

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## VIII - SPILL OR LEAK PROCEDURE

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**Spill Management:** Dike area, contain as much spilled material as possible. Cover with sodium bicarbonate or soda ash and flush with water.

**Waste Disposal Methods:** Dispose of in accordance with local, state and federal regulations.

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## IX - PROTECTION INFORMATION/CONTROL MEASURES

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**Respiratory:** A NIOSH - approved respirator for acids is recommended.

**Eye Protection:** Full face shield or goggles. **Glove:** Rubber Gloves

**Other Clothing and Equipment:** Protective clothing.

**Ventilation:** Local and mechanical exhaust is recommended.

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## X - SPECIAL PRECAUTIONS

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**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.

**Additional Information:** Do not use this product to clean unvented systems. Carbon dioxide gas released in the cleaning process may build pressure in system causing rupture or explosion.

### NEPA

Health Hazard.....: 3

Fire Hazard.....: 0

Reactivity.....: 1

Specific Hazard....:

### HMIS RATING

Health Hazard.....: 3

Fire Hazard.....: 0

Reactivity.....: 1

Personal Protection....: X (Sec. 9)

**Revision Date: 06/23/2004**

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