

**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		

III - PHYSICAL DATA

Vapor Pressure: mm Hg: Unknown
Evaporation Rate: (ether=1): Not Applicable
Solubility in H₂O: Complete
Freezing Point °F: N/A
Boiling Point °F: >212°
Specific Gravity H₂O=1 @25° C: 1.095 - 1.125

Vapor Density (Air=1) 60-90° F: Unknown
VOC Content (% by wt.): 100
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

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.

IX - PROTECTION INFORMATION/CONTROL MEASURES

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.

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.

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.

NFPA

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)

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