MSDS

(Posted 9/14/2012)

The attached MSDS supersede all other MSDS. Please file accordingly.

VENDOR: **NU-CALGON, A389-92**

STOCK#	MFG# DESCRIPTION
B82-044	4330-08 SCALE DISLV 1GAL
B82-045	4330-05 SCALE DISLV 5GAL

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name	Phone Number			CHEMTREC
Nu-Calgon Wholesaler, Inc.	(314) 469-7000 / (800) 554-5499			(800) 424-9300
Street Address	**City**	**State**	**Postal Code**	**Last Update**
2008 Altom Court	St. Louis	MO	63146-4151	3/5/12
Product Name	**Product Number**	**Product Use**		**EPA Registration #**
Liquid Scale Dissolver	4330	Acidic scale dissolving solution.		N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	% By Wt.	CAS Number	TLV	PEL
Hydrochloric Acid	> 21	7647-01-0	5 ppm	5 ppm

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: Overexposure to product has the following effects: Inhalation of vapors may cause pulmonary edema, collapse of circulatory system and damage to the upper respiratory system. Inhalation may cause coughing, throat burning, choking, bronchitis and difficult breathing. Ingestion is harmful and may be fatal. Ingestion may cause burns.

Potential Health Effects

Eyes: Corrosive. Causes eye damage. Wear splash proof goggles. Provide convenient eyewash stations. Flush immediately with water for 15 minutes. Get prompt medical attention.

Skin: Corrosive. Causes irritation and burns. Wear acid-resistant protective gloves, boots, and clothing. Provide convenient safety showers. Remove contaminated clothing. Flush skin thoroughly with water for 15 minutes. Get medical attention if burns persist.

Ingestion: Corrosive. Causes irritation and burning in mouth, esophagus, throat and stomach. Avoid swallowing. Drink lots of water or, preferably, milk. Get medical attention if effects persist. Do not induce vomiting.

Inhalation: Breathing of vapor can cause respiratory irritation and inflammation. Breathing of mist or liquid can cause burns. Wear approved HCl vapor/mist respirator if exposure is likely. Remove to fresh air. Give artificial respiration or oxygen if needed. Get prompt medical attention.

Chronic 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.

Carcinogenicity: N/A

Medical Conditions Aggravated be Exposure: No Data.

SECTION 4 – FIRST AID MEASURES

Eyes: Flush immediately with water for 15 minutes. Get prompt medical attention.

Skin: Wear acid-resistant protective gloves, boots, and clothing. Provide convenient safety showers. Remove contaminated clothing. Flush skin thoroughly with water for 15 minutes. Get medical attention if burns persist.

Ingestion: Drink lots of water or, preferably, milk. Get medical attention if effects persist. Do not induce vomiting.

Inhalation: Wear approved HCl vapor/mist respirator if exposure is likely. Remove to fresh air. Give artificial respiration or oxygen if needed. Get prompt medical attention.

SECTION 5 – FIREFIGHTING MEASURES

Flash Point: N/A°F

Autoignition Temp: No Data.°C/No Data.°F

Hazardous Products of Combustion: N/A

Flammable Limits in Air: N/A

Extinguishing Media: Product is nonflammable. Use water spray to cool fire.

Fire and Explosion Hazards: This product can react with metals to release hydrogen gas. Firemen may need to protect against this.

Special Firefighting 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.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: Small spills can be flushed into normal drainage or into ground with copious amounts of water, or taken up with absorbent material. Larger spills should be contained by dike or other methods and held for collection and/or reuse, or for neutralization with alkali before collection & disposal. People should use eye and skin protection & respirator.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment: Check daily for any leaks from containers, vessels, pumps, and piping. Have water hoses and alkali (caustic soda, lime, etc.) convenient. Only use containers and equipment designed for acid service.

Storage Requirements: Areas of use and storage should be ventilated adequately to reduce vapors below odor level.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Eye Protection: Full face shield or goggles.

Protective Clothing: Protective clothing and gloves.

Exposure Guidelines: No Data.

Specific Engineering Controls (such as ventilation, enclosed process): 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. Wash clothing after exposure/use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Orange Liquid	**Freezing Point:** No Data.°C/No Data.°F	**% Volatile by Weight:** No Data.%
Color: Orange	**Vapor Density [air =1]:** No Data.	**Evaporation Rate:** No Data.
Odor: Sharp or Pungent - Acid	**Vapor Pressure:** No Data.	**Specific Gravity:** 1.10
Boiling Point: >100°C/>212°F	**Solubility in Water:** Complete	**pH (concentrate):** <1.0

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and storage conditions.

Hazardous Polymerization: Does not occur

Incompatibilities: strong alkalis, materials not resistant to strong acids, active metals (zinc, aluminum, magnesium, etc.).

Reactive Conditions to avoid: Alkaline materials, chlorine bleach or other chlorine containing materials. Strong oxidizers and metals..

Decomposition Products: Contact with metals may generate Hydrogen, which can be explosive.

SECTION 11 – TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS #	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
Hydrochloric Acid	7647-01-0	No Data.	40 MG/KG (Mouse)	3124 PPM (Rat)

SECTION 12 – ECOLOGICAL INFORMATION

Hazardous Ingredients	Aquatic Toxicity Data
Hydrochloric Acid	This material is expected to be toxic to aquatic life.

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORTATION INFORMATION

Special Shipping Information: No Data.

Purview	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT (Land)	HYDROCHLORIC ACID SOLUTION	UN1789	II	8
IMO (Water)	No Data.	No Data.	No Data.	No Data.
ICAO (Air)	No Data.	No Data.	No Data.	No Data.

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: (Workplace Hazardous Material Information System)	Class E - Corrosive Material.
SARA Title III: (Superfund Amendments & Reauthorization Act)	Hydrochloric Acid
OSHA: (Occupational Safety & Health Administration)	No Data.
TSCA: (Toxic Substance Control Act)	No Data.
VOC: (volatile Organic Compounds)	0.45%
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.
EINECS: (European Inventory of Existing Commercial Chemical Substances)	No Data.
DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List)	No Data.
CERCLA: (Comprehensive Response Compensation & Liability Act)	No Data.
IDL: (Canadian Ingredient Disclosure List)	No Data.
NFPA (HMIS) Rating: (Hazardous Materials Identification System)	Health Hazard.....: 3 Fire Hazard.....: 0 Reactivity.....: 1 Personal Protection...: X

SECTION 16 – OTHER INFORMATION

No Data.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herin.