

MSDS

(Posted 9/13/2012)

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

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

STOCK# MFG# DESCRIPTION

B81-523 4360-88 COOLING TOWER TREATMENT



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name Nu-Calgon Wholesaler, Inc.	Phone Number (314) 469-7000 / (800) 554-5499	CHEMTREC (800) 424-9300		
Street Address 2008 Altom Court	City St. Louis	State MO	Postal Code 63146-4151	Last Update 4/28/10
Product Name Season Start	Product Number 4360-88	Product Use Powdered scale remover.		EPA Registration # N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>% By Wt.</u>	<u>CAS Number</u>	<u>TLV</u>	<u>PEL</u>
Sulfamic Acid	97	5329-14-6	N/A	N/A

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: No Data.
Potential Health Effects
Eyes: Causes burns to both eyes and skin.
Skin: Causes burns to both eyes and skin.
Ingestion: Harmful if swallowed. Will burn mouth, throat and stomach.
Inhalation: Irritates nose, throat and skin.
Chronic Exposure: No available information was found.
Carcinogenicity: No Data.
Medical Conditions Aggravated by Exposure: No Data.

SECTION 4 – FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes. Call a physician.
Skin: Flush skin with plenty of water for at least 15 minutes. If irritation develops, call a physician.
Ingestion: DO NOT induce vomiting. Give large quantities of water. Give at least 1 ounce of milk of magnesia or aluminum hydroxide gel in equal amounts of water. If not available, the whites of 2 - 3 eggs may be used. Never give anything by mouth to an unconscious person. Call a physician.
Inhalation: Remove to fresh air. Call a physician.

SECTION 5 – FIREFIGHTING MEASURES

Flash Point: N/A°C/N/A°F
Autoignition Temp: No Data.°C/No Data.°F
Hazardous Products of Combustion: No Data.
Flammable Limits in Air: No Data.
Extinguishing Media: Product is nonflammable. In the event of fire, use water, chemical foam, dry chemical, CO2.
Fire and Explosion Hazards: May release SO2, SO3 or NH3 gases if involved in a fire.
Special Firefighting Procedures: Water solutions of this compound result in strong acids.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill or Leak: Cautiously cover spill with bicarbonate of soda or soda ash - slaked lime mixture(50 - 50). Mix and flush to discharge using plenty of water in accordance with local, state and federal laws.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment: Do not get in eyes, on skin or clothing. Keep from contact with chlorine bleaches. Wash thoroughly after handling. Keep container dry. Read and observe all label precautions.

Storage Requirements: Do not get in eyes, on skin or clothing. Keep from contact with chlorine bleaches. Wash thoroughly after handling. Keep container dry. Read and observe all label precautions.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH - approved filter respirator recommended in case of dust.

Eye Protection: Goggles or face shield

Protective Clothing: Rubber gloves. Wash protective clothing.

Exposure Guidelines: No Data.

Specific Engineering Controls (such as ventilation, enclosed process): Local and mechanical exhaust is recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Purple flowing granules	Freezing Point: N/A°C/N/A°F	% Volatile by Weight: N/A%
Color: Purple flowing granules	Vapor Density [air =1]: N/A	Evaporation Rate: N/A
Odor: Pungent odor	Vapor Pressure: N/A	Specific Gravity: N/A
Boiling Point: N/A°C/N/A°F	Solubility in Water: Appreciable	pH (concentrate): 1.25

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: None known.

Incompatibilities: Alkali, chlorine sources (bleaches).

Reactive Conditions to avoid: If heated releases SO₂, SO₃ or NH₃ gases.

Decomposition Products: Unknown.

SECTION 11 – TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS #	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
Sulfamic Acid	5329-14-6		ORAL LD50 - Rat 1600mg/kg	

SECTION 12 – ECOLOGICAL INFORMATION

Hazardous Ingredients	Aquatic Toxicity Data
No Data.	

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Cautiously stir product waste in large volume of soda ash - slaked lime solution. Flush neutralized solution and discharge in accordance with local, state and federal regulations.

SECTION 14 – TRANSPORTATION INFORMATION

Special Shipping Information: No Data.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT (Land)	Sulfamic Acid	2967	III	Corrosive (8)
IMO (Water)	No Data.			
ICAO (Air)	No Data.			

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: (Workplace Hazardous Material Information System)	Class E - Corrosive Material.
SARA Title III: (Superfund Amendments & Reauthorization Act)	No Data.
OSHA: (Occupational Safety & Health Administration)	No Data.
TSCA: (Toxic Substance Control Act)	All ingredients are TSCA listed.
VOC: (volatile Organic Compounds)	No Data.
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.....: 1 Fire Hazard.....: 0 Reactivity.....: 1 Specific Hazard...: 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 herein.