



## MATERIAL SAFETY DATA SHEET Imperial Scale Remover

### I - PRODUCT IDENTIFICATION

**Company Name:** Nu-Calgon Wholesaler, Inc.  
**Address:** 2008 Altom Court, St. Louis, MO 63146-4151  
**Product Name:** Imperial Scale Remover  
**Synonyms:** Sulfamic Acid

**Tel No:** (314) 469-7000, (800) 554-5499  
**CHEMTREC:** (800) 424-9300  
**Product Number:** 4360-84

### II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Sulfamic Acid (ORAL LD50 - Rat 1600mg/kg)	5329-14-6	97	N/A	N/A

All ingredients are TSCA listed.

### III - PHYSICAL DATA

<b>Vapor Pressure:</b> mm Hg: N/A	<b>Vapor Density (Air=1) 60-90° F:</b> N/A
<b>Evaporation Rate:</b> (ether=1): N/A	<b>VOC Content (% by wt.):</b>
<b>Solubility in H<sub>2</sub>O:</b> Appreciable	<b>pH @ 1% Solution:</b> 1.25
<b>Freezing Point °F:</b> N/A	<b>pH as Distributed:</b> N/A
<b>Boiling Point °F:</b> N/AV	<b>Appearance:</b> Purple flowing granules
<b>Specific Gravity H<sub>2</sub>O=1 @25° C:</b> N/A	<b>Odor:</b> Pungent odor

### IV - FIRE AND EXPLOSION

**Flash Point F:** N/A **Flammable Limits:** N/A  
**Extinguishing Media:** Product is non flammable. In the event of fire, use water, chemical foam, dry chemical, CO<sub>2</sub>.  
**Special Fire Fighting Procedures:** Water solutions of this compound result in strong acids.  
**Unusual Fire and Explosion Hazards:** May release SO<sub>2</sub>, SO<sub>3</sub> or NH<sub>3</sub> gases if involved in a fire.

### V - REACTIVITY DATA

**Stability - Conditions to avoid:** If heated releases SO<sub>2</sub>, SO<sub>3</sub> or NH<sub>3</sub> gases.  
**Incompatibility:** Alkali, chlorine sources (bleaches).  
**Hazardous Decomposition Products:** Unknown.  
**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:** Causes burns to both eyes and skin.  
**INGESTION:** Harmful if swallowed. Will burn mouth, throat and stomach. **INHALATION:** Irritates nose, throat and skin.  
**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. Call a physician.  
**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.

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## VIII - SPILL OR LEAK PROCEDURE

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**Spill Management:** 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.

**Waste Disposal Methods:** 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.

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## IX - PROTECTION INFORMATION/CONTROL MEASURES

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

**Eye Protection:** Goggles or face shield **Glove:** Rubber gloves

**Other Clothing and Equipment:** Wash 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. Keep from contact with chlorine bleaches. Wash thoroughly after handling. Keep container dry.

**Additional Information:** Read and observe all label precautions.

### NFPA

Health Hazard .....: 1

Fire Hazard .....: 0

Reactivity .....: 1

Specific Hazard ...:

### HMIS RATING

Health Hazard .....: 1

Fire Hazard .....: 0

Reactivity .....: 1

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

**Revision Date: 07/15/2003**

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