



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

Vapor Pressure: mm Hg: N/A	Vapor Density (Air=1) 60-90° F: N/A
Evaporation Rate: (ether=1): N/A	VOC Content (% by wt.):
Solubility in H₂O: Appreciable	pH @ 1% Solution: 1.25
Freezing Point °F: N/A	pH as Distributed: N/A
Boiling Point °F: N/AV	Appearance: Purple flowing granules
Specific Gravity H₂O=1 @25° C: N/A	Odor: 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, CO₂.
Special Fire Fighting Procedures: Water solutions of this compound result in strong acids.
Unusual Fire and Explosion Hazards: May release SO₂, SO₃ or NH₃ gases if involved in a fire.

V - REACTIVITY DATA

Stability - Conditions to avoid: If heated releases SO₂, SO₃ or NH₃ 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.

VIII - SPILL OR LEAK PROCEDURE

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.

IX - PROTECTION INFORMATION/CONTROL MEASURES

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.

X - SPECIAL PRECAUTIONS

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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