

MATERIAL SAFETY DATA SHEET

Emergency: (800) 424-9300, (202) 483-7616, (707) 820-4080

Product Name: DISHMACHINE DE-LIMER AND BRIGHTNER
Product Code: SCS120

Effective Date: 5/25/07
Supercedes: 10/20/03

Manufactured By: NuGeneration Technologies, LLC, 100 Professional Center Drive Suite 101 Rohnert Park, CA 94928 USA 707-820-4080
fax 707-820-4079

Proper Shipping Name: Cleaning Compound, Corrosive Liquid, UN1760, 8, PG II, ERG #60. Class 55

HAZARDOUS INGREDIENTS

Chemical Name	CAS#	PCNT%	TLV	PEL (TWA)
Hydrochloric acid	7647-01-1	< 85 %	5 ppm	5 ppm
Hydrofluoric acid	7664-39-3	1-10 %	3 ppm	3 ppm

PHYSICAL DATA

Boiling Point: 205°F	pH (as is): <1	Viscosity: 10 cps	Vapor Pressure: Not Available
Specific Gravity: 1.120	Evaporation Rate: <1	Solubility: complete	Boiling Point: 220 F
Appearance & Odor: Clear Pale Yellow Liquid, Odor Harsh	Reactivity in Water: None	Melting Point: N/A	Volatiles: none

FIRE & EXPLOSION DATA

NFPA 704 Hazard Rating (4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Minimal):

Health: 4	Slightly Hazardous	Flash Point: none to boil
Fire: 0	Above 200°F	Method Used: Cleveland Open Cup
Reactivity: 0	Stable	Flammability Levels (LEL/UEL): N/A

Extinguishing Media: This product is not combustible. Use water spray, foam, carbon dioxide, or dry chemical.

Fire and Explosion Hazard: Will produce hazardous fumes and decomposition products. May produce hazardous flammable/explosive fumes of hydrogen gas when in contact with some metals. Water solutions are corrosive and toxic. Wear special protective clothing and self contained breathing apparatus.

Conditions to Avoid: Open flames, welding arcs, or other high temperature sources that induce thermal decomposition, which produce toxic fumes.

REACTIVITY DATA

Materials to Avoid: Strong bases. Chlorine, some metals (aluminum) glass, and oxides.

Hazardous Polymerization: Will not occur.

Stability: Stable under normal storage conditions do not store at temperatures above 100 F.

Hazardous Decomposition Products: When heated to decomposition temperatures emits highly toxic HF and Fluoride fumes.

HEALTH HAZARDS

Eye Contact: DANGER – POISON – CORROSIVE

Skin Contact: DANGER – POISON – CORROSIVE

Ingestion: Harmful or FATAL if swallowed.

Inhalation: Harmful if inhaled. May cause respiratory burns, dizziness and loss of consciousness.

FIRST AID

Eyes: Flush out immediately for at least 20 minutes with running water and seek medical attention. Washing eyes within one minute is essential to minimizing eye damage. Hold eyelids apart to ensure flushing of the entire surface. Advise of strong acid and HF contact.

Skin: Immediately flush skin with plenty of clean running water for at least 15 minutes while removing contaminated clothing and shoes. Then as soon as possible soak area in or contact area with an iced solution of Zephiran (0.13%). Call a physician at once. Advise of strong acid and HF contact.

Ingestion: If swallowed, DO NOT induce vomiting. Give large quantities of water or milk. If vomiting occurs, keep airways clean. Never give anything by mouth to and unconscious person. Seek medical attention. Advise of strong acid and HF ingestion.

Inhalation: Move person to fresh air and away from exposure. If breathing is difficult, administer oxygen and seek medical attention. Give artificial respiration if victim is not breathing.



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SPILL OR LEAK PROCEDURES

Steps to Contain:

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leaks if you can do it without risk. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (rubber boots, gloves and self contained acid fume resistant breathing apparatus). Carefully add lime or sodium carbonate to neutralize acid. Then contain spills with dry earth, sand or other non-combustible material and transfer to containers for proper disposal. Sweep up powder spills and transfer to containers. Dispose of in an approved landfill in accordance with all local state and federal regulations.

Recommended Waste Disposal Method:

The material as shipped meets the EPA criteria as hazardous waste and, therefore, subject to specific regulations as specified in 40 CFR 261 on the basis of its corrosivity. Package, store, transport, and dispose of all clean-up materials and any contaminated equipment in accordance with all applicable federal, state, and local health environmental regulations. Shipments of waste materials are subject to manifesting requirements per applicable regulations. Ensure that all responsible federal, state, and local agencies receive proper notification of spills and disposal methods.

SPECIAL PROTECTION

Respiratory: Local exhaust is mandatory as fumes from this material are Corrosive and toxic. A NOISH Approved self contained breathing apparatus is needed for most applications when working with the full strength material, where the TLV of HF is exceeded.

Eye: Chemical goggles.

GLOVES: Rubber gloves covering forearms.

Comments: Full face shield, rubber apron, and rubber boots.

SPECIAL PRECAUTIONS

Storage: Keep in a well ventilated cool, dry place.

Handling: Before handling prepare a dilute aqueous solution of ZEPHIRAN, available from most drug stores (0.13%, 1 part ZEPHIRAN to 750 parts water). For emergency First Aid, if needed. Do not add to hypochlorite bleaches, chlorine sanitizers, or chlorinated cleaners as they liberate toxic corrosive chlorine gas. Do not stack or palletize over two high.

USER'S RESPONSIBILITY

It is the user's responsibility to provide a safe workplace. He or she should consider the health hazard and safety information contained herein as a guide and take those precautions required in an individual operation to instruct employees and develop work practice procedures for an safe work environment.

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

ADDITIONAL REGULATORY INFORMATION

This product contains the following chemicals that are subject to the regulations mentioned below. As a supplier of the product, we are required to inform you of their presence so that you may determine you need to comply. If the chemical listed below is subject to the reporting requirements of SARA Title III, Section 313 of 40CFR372, you must include the section 313 notice on any copies of redistribution of this MSDS.

NTP/IARC/OSHA Carcinogens: NONE

SARA Title III, CFR372 Hazardous substance notification requirements

Section 302/304:

Hydrochloric acid & Hydrofluoric acid

Section 304 (CERCLA):

Hydrochloric acid & Hydrofluoric acid

Section 313 Tier I/II:

Hydrochloric acid & Hydrofluoric acid

Section 313 Reporting:

Hydrochloric acid & Hydrofluoric acid

Proposition 65 (California's Safe Water and Toxic Act of 1986): NONE



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