

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Date Prepared: 04-19-13

Product Identifier: **VIPER Ice Machine Cleaner Nickel Safe**

Manufacturers Part #RT500N or G

General Use: Descaler

Chemical Family: Acid Cleaner

Manufacturer Refrigeration Technologies (www.refrigtech.com)

1111 N. Armando St

Anaheim, CA 92806

Ph: (800) 869-1407, 714-238-9207 Fax: 714-238-9234

24 HR Emergency Phones: Chem-Tel, Inc. (800) 255-3924; International: (813) 248-0585

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components	CAS#	WEIGHT %	TWA	STEL	PEL	EINECS#
Organic Acid N.O.S.	NA	40%	NE	NE	NE	NA

RISK PHRASE: R34, Causes Burns; SAFETY PHRASE: 1/2/24/25/36/37/39

HAZARD SYMBOL: Corrosive

This product is subject to the EC directive 82/501/EEC and amendments.

SECTION 3 - HAZARDOUS IDENTIFICATION

HMIS: H=3, F=0, R=1, S=0

Emergency Overview: DANGER: Corrosive, Causes Burns, Harmful if Ingested

Potential Health Effects:

EYES: Corrosive: Burning and Severe Irritation.

SKIN: Corrosive: Burning or Severe Irritation. No more than slightly toxic.

INGESTION: Slightly toxic

INHALATION: Slightly toxic. If Heated, Vapors are Irritating, Causing Severe Damage to Nose, Throat and Lungs

Carcinogenic: No NTP? No IARC Monographs? No OSHA Regulated? Yes

SECTION 4 - FIRST AID MEASURES:

EYES: Flush immediately with water for 15 minutes. If irritation persists, call physician

SKIN: Wash off immediately with soap and water. If irritation persists, call physician

INGESTION: Drink large amounts of water. Call physician immediately.

INHALATION: Get person to fresh air. Call physician immediately.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

NFPA Hazard Rating: H=3, F=0, R=1, S=0

Flash Point: None Flammable Limits: Not Tested LEL: Not Tested UEL: Not Tested

Extinguishing Media: Water, CO2 or Dry Foam Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

Hazardous Combustion Products: Hydrocarbons, CO, CO2

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Soak up with inert, absorbent material. Scoop up and place in a proper waste disposal container. Dispose of in accordance with federal, state and local regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions to be taken in handling and storing: DANGER: Corrosive Liquid. Store in a cool, dry place, out of direct sunlight. Do not freeze or heat above 120 F. Keep container away from heat or open flame. Use with adequate ventilation. Avoid contact with skin and eyes. Have immediate access to water in case of contact.

Other precautions: KEEP OUT OF REACH OF CHILDREN

SECTION 8 - EXPOSURE/CONTROL MEASURES

Hazardous Component	NIOSH TWA/STEL	ACGIH TWA/STEL
Organic Acid Mixture	NE	NE

Respiratory Protection: Open all doors and windows. If there is an exposure and it is above the TLV or PEL, a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134 is required

Ventilation: Local Exhaust: If available Special: None

Mechanical: If available Other: None

Protective Gloves: Plastic or Rubber, Chemical Resistant

Eye Protection: Glasses, Goggles

Other Protective Clothing or Equipment: None

Work Hygienic Practices: Use common sense and care around chemicals. Never mix chemicals. Consult your supervisor for other practices.

All practices depend on your specific business. Directions for use are normally found on label that will dictate engineering and control measures.

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SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

Boiling Point >251F/122C Specific Gravity: 1.21
Vapor Pressure: Not tested pH: <1
Vapor Density: Not tested Evaporation Rate: Not tested
Solubility in Water: Complete Appearance and Odor: Blue, bland odor
Viscosity: Not tested Freeze Point: NA

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable
Conditions to Avoid: High Temperatures above 120F/50C. Open flame
Incompatible Materials to Avoid: Strong Bases, Oxidizers
Hazardous Decomposition or Byproducts: Hydrocarbons, CO, CO2
Hazardous Polymerization: Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS#	EINECS#	LC50 Inhaled	LD50 oral	LD50 dermal
Organic Acids, Mixture	None	None	NA	1000mg/kg rat	2000mg/kg Rabbit

Component is Corrosive to all tissue with rapid tissue destruction. Heated Vapors are Irritating

SECTION 12 - ECOLOGICAL INFORMATION

Product is composed of biodegradable ingredients. Aquatic toxicity is 10-100ml/l 48 hr/mosquito fish/TLm/fresh water.
No other negative environmental impact.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of as hazardous waste. Follow Federal, State and Local codes before disposal of any chemicals. Consult with an expert in your area on proper disposal methods. Chemicals should never be allowed to enter sewers, watercourses or low areas without proper authorization. Empty containers should be thoroughly rinsed and offered for recycling.

SECTION 14 - TRANSPORTATION INFORMATION

DOT: Corrosive liquid, acidic, organic: Class 8, UN#3265, Division 8, Packing Group III
IMDG: Corrosive liquid, acidic, organic: UN#3265, Division 8, Packing Group III
IATA: Do not ship by Air unless packaged by Certified Hazmat Packager

SECTION 15 - REGULATORY INFORMATION

SARA/CERCLA/313: Not Listed
TSCA: Components are listed on the TSCA Inventory
EINECS: None
ADG: Corrosive liquid, acidic, organic: UN#3265, Division 8, Packing Group III
CALIFORNIA PROP 65: No reportable ingredients
CPR: Ingredient Listed: "This product MSDS contains all the information required by the CPR."
IDL: Mixture of Organic Acids
DSL/NDSL: All Ingredients Present
RISK PHRASE: R34, Causes Burns
SAFETY PHRASE: 1/2/24/25/36/37/39
WHIMIS STATUS: Class E, Corrosive



Symbol:

VOC Content: 0 grams/liter

SECTION 16 - OTHER INFORMATION

NSF Registration Number, Non-Food Compound, Category A3
Product may be used around food and on food equipment as per NSF Category A3.
Manufacturer Disclaimer: This information relates to the specific materials designated herein and may not be valid for such materials used in combination with any other material. The information contained in this document is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information.

Date Prepared: 04-19-13

By: John Pastorello, CEO - Refrigeration Technologies