MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION Identity (As Used on Label and List): Concrete Cleaner and Etcher Concentrate Product Class: Water-based acid etcher Emergency Telephone Number: 800-255-3924 Telephone Number for Information: 651-481-1900 Manufacturer's Name and Address:	Protective Gloves: Chemical resistant rubber Eye Protection: Approved safety goggles or glasses. Footwear: Chemical resistant footwear may be required. Other Protective Clothing or Equipment: Not required Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.
Multi-Clean® 600 Cardigan Road Shoreview, MN 55126	SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS Boiling Point: Approximately 212°F (100°C) pH: < 1
SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS	Specific Gravity (H20) = 1: 1.086 % Volatile: > 90 Vapor Density (Air = 1): > 1 Odor Threshold: N. Av.
Hazardous Components (Specific Chemical Identity):	Evaporation Rate (Butyl Acetate = 1): N. Av. Oil/Water Distribution
Chemical Common Name(s) %	Solubility in Water: Complete Coefficient: N. Av.
A Hydrogen Chloride 15 - 40	Vapor Pressure (MM HG): N. Av. Melting Point: N. Ap.
CAS #7647-01-0 B Dipropylene Glycol Methyl Ether 1 - 5	SECTION X - STABILITY AND REACTIVITY
CAS #34590-94-8 C Alcohol Ethoxylates 1 - 5	Stability: Unstable: Stable: X Conditions to Avoid: Avoid contact with metals.
CAS #34398-01-1	Incompatibility (materials to avoid): Chlorine bleach, oxidizing agents.
D Water 60 - 100 CAS #7732-18-5	Hazardous Decomposition or By-products: N. Av. Hazardous Polymerization: May occur: Will not occur: X Conditions to Avoid: N. Ap.
SECTION III - HAZARDS IDENTIFICATION	
Emergency Overview	SECTION XI - TOXICOLOGICAL INFORMATION
Appearance and Odor: Clear liquid, Wintergreen Scent	Chemical OSHA PEL ACGIH TLV Recom. LD50 LC50
Primary Hazards: Corrosive Potential Health Hazards	A C5 ppm C5 ppm N. Av. N. Av. N. Av. B 100 ppm 100 ppm N. Av. 5.6 gm/kg >33,000 ppm
Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X	(skin) (skin) (rat, oral) (rat)
Eye: May cause severe burns.	C Noné Noné N. Av. 2,100 mg/kg > 200 mg/L
Skin: May cause severe burns. Ingestion: May be harmful or fatal if swallowed.	(rat, oral) (rat, oral) D None None N. Av. N. Av. N. Av.
Inhalation: Vapors may be harmful.	Toratagan Mutagan Panroductive Toxin Status: N Av
Signs and Symptoms of Exposure: Severe irritation on direct contact.	Teratogen, Mutagen, Reproductive Toxin Status: N. Av. Toxicologically Synergistic Products: N. Av.
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No	
Target Organ (s): Eyes, skin, respiratory system.	SECTION XII - ECOLOGICAL INFORMATION Ecotoxicological Information: N. Av.
Medical Conditions Generally Aggravated by Exposure: N. Av.	Chemical Fate Information: N. Av.
Health Hazards, Chronic: N. Av.	
SECTION IV - FIRST AID MEASURES	SECTION XIII - DISPOSAL CONSIDERATIONS
Emergency and First Aid Procedures:	Waste Disposal Method:
If Swallowed: Do not induce vomiting. Drink water in large amounts, follow with milk of	Neutralize and dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewered, depending on the
magnesia, beaten eggs or vegetable oil. Call a physician immediately. Never give	materials and/or contaminates being cleaned as well as state, federal and local sever
anything by mouth to an unconscious person. Eye Contact: Flush eyes with running	commission regulations.
water for at least 15 minutes. If irritation persists, obtain medical attention. Skin	RCRA Hazard Class: DOO2, characteristic corrosive
Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing	SECTION XIV - TRANSPORT INFORMATION
before reuse. Corrosive: May cause stricture. If lavage is performed, suggest endotracheal and/or	Shipping Classification: Corrosive Liquid, Acidic Inorganic, N.O.S.
esophagoscopic control. If burn is present, treat as thermal burn, after decontamination.	(Containing Hydrochloric Acid), Class 8 UN
No specific antidote.	Number: 3264
Sources Used: Raw material data, general toxicology from the trade for similar	Packing Group: II
products.	SECTION XV - PREPARATION DATA
SECTION V - FIRE FIGHTING MEASURES	Prepared By: Ron Camp
Flammability: Non-flammable Autoignition Temperature: N. Ap.	Telephone Number: 651-481-1900
Flash Point (method used): None	Date: 4-12
Flammable Limits: N. Ap. LEL UEL Extinguishing Media N. Ap.	SECTION XVI - REGULATORY INFORMATION
Water? Foam? Water Fog?	US Federal Regulations
Alcohol Foam? CO ₂ ? Dry Chemical?	TSCA Status: All ingredients listed.
Vaporizing Liquid? Other?	CERCLA Reportable Quality: > 5,000 lbs.
Special Fire Fighting Procedures: N. Ap.	SARA Title III Section 302 Extremely Hazardous Chemicals: None
Unusual Fire and Explosion Hazards: Hydrogen chloride is non-flammable,	Section 311/312 Hazard Category: Immediate health, chronic health
however flammable hydrogen gas can be generated when it is in contact with metals. TDG Flammability Classification: Non-flammable	Section 313 Toxic Chemicals: Hydrochloric acid
Sensitivity to Mechanical Impact: None	State Regulations
Sensitivity to Static Discharge: None	
SECTION VI - ACCIDENTAL RELEASE MEASURES	International Regulations WHMIS Controlled Product Hazard Class: D1A, E
Steps to be Taken in Case Material is Released or Spilled:	
Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop,	SECTION XVII - OTHER INFORMATION
absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area	None
with water.	N An Not Applicable: N Av. Not Available
SECTION VII - HANDLING AND STORAGE	N. Ap Not Applicable; N.Av Not Available
Precautions to be Taken in Handling and Storing:	
Normal care in handling and storage.	NFPA SYSTEM
Other Precautions: Keep out of reach of children. Keep from freezing.	<u>_3</u> A. Health Hazard <u>0</u> A. Fire Hazard <u>0</u> A. Reactivity Hazard
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION	THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED
Respiratory Protection (Specify Types): Not required where ventilation is sufficient to	FROM THE USE THEREOF. MINUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR PERSONAL
maintain hydrogen chloride vapor level below listed TLV (Section XI). Use NIOSH/MSHS	INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.
approved acid vapor respirator in areas where vapor level exceeds TLV.	TENSED ON OBERO NOUGHE REENIONO NOUGONTED WITH THE USE OF THE WRITERIAE.
Ventilation: Local Exhaust: Not required Special: Not required	
Mechanical (General): As required to keep vapor levels below listed	
TLV (Section XI). Other: Not required	