

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

<b>SECTION I - CHEMICAL PRODUCT &amp; COMPANY IDENTIFICATION</b>		
<b>Identity (As Used on Label and List):</b> 950 Bowl Cleaner		
<b>Product Class:</b> Acid cleaner		
<b>Emergency Telephone Number:</b> 800-255-3924		
<b>Telephone Number for Information:</b> 651-481-1900		
<b>Manufacturer's Name and Address:</b> Multi-Clean 600 Cardigan Road Shoreview, MN 55126		
<b>SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS</b>		
<b>Hazardous Components (Specific Chemical Identity):</b>		
<b>Chemical</b>	<b>Common Name(s)</b>	<b>%</b>
A	Hydrogen chloride CAS #7647-01-0	9.5
B	Water CAS #7732-18-5	60 - 100
<b>SECTION III - HAZARDS IDENTIFICATION</b>		
<b>Emergency Overview</b>		
<b>Appearance and Odor:</b> Green liquid, acid odor.		
<b>Primary Hazards:</b> Corrosive		
<b>Potential Health Hazards</b>		
<b>Route(s) of Entry:</b>	<b>Skin Absorption:</b> X	<b>Ingestion:</b> X
<b>Eye:</b> May cause severe burns.		<b>Inhalation:</b> X
<b>Skin:</b> May cause severe burns.		
<b>Ingestion:</b> May be harmful or fatal if swallowed.		
<b>Inhalation:</b> Vapors may be harmful.		
<b>Signs and Symptoms of Exposure:</b> Severe irritation on direct contact.		
<b>Carcinogenicity:</b> NTP? No	<b>IARC Monographs?</b> No	
<b>OSHA Regulated?</b> No		
<b>Target Organ (s):</b> Eyes, skin, respiratory system.		
<b>Medical Conditions Generally Aggravated by Exposure:</b> N. Av.		
<b>Health Hazards, Chronic:</b> N. Av.		
<b>SECTION IV - FIRST AID MEASURES</b>		
<b>Emergency and First Aid Procedures:</b>		
<b>If Swallowed:</b> Call a Poison Control Center or doctor for treatment advice. Rinse mouth with water. Then drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by the Poison Control Center or Doctor. Get immediate medical attention.		
<b>Eye Contact:</b> Flush eyes with running water for at least 15 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye. Get immediate medical attention. <b>Skin Contact:</b> Flush with water for 15 minutes. Remove and wash contaminated clothing. Flush area for 15-20 minutes. Call doctor for treatment advice.		
<b>Sources Used:</b> Raw material data, general toxicology from the trade for similar products.		
<b>SECTION V - FIRE FIGHTING MEASURES</b>		
<b>Flammability:</b> Non-flammable	<b>Autoignition Temperature:</b> N. Av.	
<b>Flash Point (method used):</b> None		
<b>Flammable Limits:</b> N. Av.	LEL	UEL
<b>Extinguishing Media:</b> N. Av.		
<b>Water?</b> x	<b>Foam?</b> x	<b>Water Fog?</b> X
<b>Alcohol Foam?</b>	<b>CO<sub>2</sub>?</b>	<b>Dry</b>
<b>Vaporizing Liquid?</b>	<b>Other?</b>	<b>Chemical?</b>
<b>Special Fire Fighting Procedures:</b> N. Av.		
<b>Unusual Fire and Explosion Hazards:</b> Hydrogen chloride is non-flammable, however flammable hydrogen gas can be generated when it is in contact with metals.		
<b>TDG Flammability Classification:</b> Non-flammable		
<b>Sensitivity to Mechanical Impact:</b> None		
<b>Sensitivity to Static Discharge:</b> None		
<b>SECTION VI - ACCIDENTAL RELEASE MEASURES</b>		
<b>Steps to be Taken in Case Material is Released or Spilled:</b>		
Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.		
<b>SECTION VII - HANDLING AND STORAGE</b>		
<b>Precautions to be Taken in Handling and Storing:</b>		
Normal care in handling and storage.		
<b>Other Precautions:</b> Keep out of reach of children. Keep from freezing.		
<b>SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION</b>		
<b>Respiratory Protection (Specify Types):</b> Not required where ventilation is sufficient to maintain hydrogen chloride vapor level below listed TLV (Section XI).		
<b>Ventilation:</b> Local Exhaust: Not required	<b>Special:</b> Not required	
<b>Mechanical (General):</b> As required to keep vapor levels below listed TLV (Section XI).	<b>Other:</b> Not required	
<b>Protective Gloves:</b> Chemical resistant rubber		
<b>Eye Protection:</b> Approved safety goggles or glasses.		
<b>Footwear:</b> Chemical resistant footwear may be required.		

<b>Other Protective Clothing or Equipment:</b> Not required					
<b>Work/Hygienic Practices:</b> Do not breath vapors or fumes. Do not contaminate food or beverages with cleaning chemicals.					
<b>SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS</b>					
<b>Boiling Point:</b> Approximately 212°F (100°C)	<b>pH:</b> < 1				
<b>Specific Gravity (H<sub>2</sub>O) = 1:</b> 1.05	<b>% Volatile:</b> > 95				
<b>Vapor Density (Air = 1):</b> > 1	<b>Odor Threshold:</b> N. Av.				
<b>Evaporation Rate (Butyl Acetate = 1):</b> N. Av.	<b>Oil/Water Distribution</b>				
<b>Solubility in Water:</b> Complete	<b>Coefficient:</b> N. Av.				
<b>Vapor Pressure (MM HG):</b> N. Av.					
<b>Melting Point:</b> N. Ap.					
<b>SECTION X - STABILITY AND REACTIVITY</b>					
<b>Stability:</b> Unstable:	<b>Stable:</b> X				
<b>Conditions to Avoid:</b> None known.					
<b>Incompatibility (materials to avoid):</b> Do not mix with chlorine bleach or oxidizing agents.					
<b>Hazardous Decomposition or By-products:</b> N. Av.					
<b>Hazardous Polymerization:</b> May occur:	<b>Will not occur:</b> X				
<b>Conditions to Avoid:</b> N. Ap.					
<b>SECTION XI - TOXICOLOGICAL INFORMATION</b>					
<b>Chemical</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Recom.</b>	<b>LD50</b>	<b>LC50</b>
A	5 ppm	5 ppm	N. Av.	N. Av.	N. Av.
B	None	None	N. Av.	N. Av.	N. Av.
<b>Teratogen, Mutagen, Reproductive Toxin Status:</b> N. Av.					
<b>Toxicologically Synergistic Products:</b> N. Av.					
<b>SECTION XII - ECOLOGICAL INFORMATION</b>					
<b>Ecotoxicological Information:</b> N. Av.					
<b>Chemical Fate Information:</b> N. Av.					
<b>SECTION XIII - DISPOSAL CONSIDERATIONS</b>					
<b>Waste Disposal Method:</b>					
Neutralize and dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewerred.					
<b>RCRA Hazard Class:</b> D002, characteristic corrosive.					
<b>SECTION XIV - TRANSPORT INFORMATION</b>					
<b>Shipping Classification:</b>					
<b>DOT:</b> ORM D Consumer Commodity					
<b>IATA &amp; IMDG:</b> UN 3264, Corrosive liquid, Acidic inorganic N.O.S. (Hydrochloric acid) 8, PG II					
<b>SECTION XV - PREPARATION DATA</b>					
<b>Prepared By:</b> Mike Elms					
<b>Telephone Number:</b> 651-481-1900					
<b>Date:</b> 12-2011					
<b>SECTION XVI - REGULATORY INFORMATION</b>					
<b>US Federal Regulations</b>					
<b>TSCA Status:</b> All ingredients listed.					
<b>CERCLA Reportable Quality:</b> > 5,000 lbs.					
<b>SARA Title III</b>					
<b>Section 302 Extremely Hazardous Chemicals:</b> None					
<b>Section 311/312 Hazard Category:</b> Immediate health, chronic health					
<b>Section 313 Toxic Chemicals:</b> Hydrochloric acid					
<b>State Regulations</b>					
<b>International Regulations</b>					
<b>SECTION XVII - OTHER INFORMATION</b>					
None					
N. Ap. - Not Applicable; N.Av. - Not Available					

## NFPA SYSTEM

3 A. Health Hazard      0 A. Fire Hazard      0 A. Reactivity Hazard

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 FROM THE USE THEREOF. MINUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR PERSONAL 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.