

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Identity (As Used on Label and List): 2300 Bowl Cleaner Product Class: Acid cleaner Emergency Telephone Number: 800-255-3924 Telephone Number for Information: 651-481-1900 Manufacturer's Name and Address: Multi-Clean® 600 Cardigan Road Shoreview, MN 55126	
SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS	
Hazardous Components (Specific Chemical Identity):	
Chemical	Common Name(s) %
A	Hydrogen chloride 23.0 AS #7647-01-0
B	Water 60 - 100 AS #7732-18-5
SECTION III - HAZARDS IDENTIFICATION	
Emergency Overview Appearance and Odor: Pink liquid, acid odor. Primary Hazards: Corrosive	
Potential Health Hazards	
Route(s) of Entry: Skin Absorption: X Ingestion: Inhalation: X	
Eye: May cause severe burns.	
Skin: May cause severe burns.	
Ingestion: May be harmful or fatal if swallowed.	
Inhalation: Vapors may be harmful.	
Signs and Symptoms of Exposure: Severe irritation on direct contact.	
Carcinogenicity: NTP? No IARC Monographs? No	
OSHA Regulated? No	
Target Organ (s): Eyes, skin, respiratory system.	
Medical Conditions Generally Aggravated by Exposure: N. Av.	
Health Hazards, Chronic: N. Av.	
SECTION IV - FIRST AID MEASURES	
Emergency and First Aid Procedures:	
If Swallowed: 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.	
Eye Contact: 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. Skin Contact: Flush with water for 15 minutes. Remove and wash contaminated clothing. Flush area for 15-20 minutes. Call doctor for treatment advice.	
Sources Used: Raw material data, general toxicology from the trade for similar products.	
SECTION V - FIRE FIGHTING MEASURES	
Flammability: Non-flammable	Autoignition Temperature: N. Av.
Flash Point (method used): None	
Flammable Limits: N. Av.	LEL UEL
Extinguishing Media N. Av.	
Water?	Foam?
Alcohol Foam?	CO₂?
Vaporizing Liquid?	Other?
Water Fog?	Dry Chemical?
Special Fire Fighting Procedures: N. Av.	
Unusual Fire and Explosion Hazards: Hydrogen chloride is non-flammable, however flammable hydrogen gas can be generated when it is in contact with metals.	
TDG Flammability Classification: Non-flammable	
Sensitivity to Mechanical Impact: None	
Sensitivity to Static Discharge: None	
SECTION VI - ACCIDENTAL RELEASE MEASURES	
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, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.	
SECTION VII - HANDLING AND STORAGE	
Precautions to be Taken in Handling and Storing: Normal care in handling and storage. Other Precautions: Keep out of reach of children. Keep from freezing.	
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION	
Respiratory Protection (Specify Types): Not required where ventilation is sufficient to maintain hydrogen chloride vapor level below listed TLV (Section XI).	
Ventilation: Local Exhaust: Not required	Special: Not required
Mechanical (General): As required to keep vapor levels below listed TLV (Section XI).	Other: Not required
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 breath vapors or fumes. Do not contaminate food or beverages with cleaning chemicals.					
SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: Approximately 212°F (100°C)	pH: < 1				
Specific Gravity (H₂O) = 1: 1.1	% Volatile: > 90				
Vapor Density (Air = 1): > 1	Odor Threshold: N. Av.				
Evaporation Rate (Butyl Acetate = 1): N. Av.	Oil/Water Distribution Coefficient: N. Av.				
Solubility in Water: Complete					
Vapor Pressure (MM HG): N. Av.					
Melting Point: N. Ap.					
SECTION X - STABILITY AND REACTIVITY					
Stability: Unstable: Stable: X					
Conditions to Avoid: Avoid contact with metals.					
Incompatibility (materials to avoid): Chlorine bleach, oxidizing agents.					
Hazardous Decomposition or By-products: N. Av.					
Hazardous Polymerization: May occur: Will not occur: X					
Conditions to Avoid: N. Ap.					
SECTION XI - TOXICOLOGICAL INFORMATION					
Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	5 ppm	5 ppm	N. Av.	N. Av.	N. Av.
B	None	None	N. Av.	N. Av.	N. Av.
Teratogen, Mutagen, Reproductive Toxin Status: N. Av.					
Toxicologically Synergistic Products: N. Av.					
SECTION XII - ECOLOGICAL INFORMATION					
Ecotoxicological Information: N. Av.					
Chemical Fate Information: N. Av.					
SECTION XIII - DISPOSAL CONSIDERATIONS					
Waste Disposal Method: Neutralize and dispose of spilled material as a pesticide in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewerred.					
RCRA Hazard Class: D002, characteristic corrosive.					
SECTION XIV - TRANSPORT INFORMATION					
Shipping Classification: DOT: ORM D Consumer Commodity					
IATA & IMDG: UN 3264, Corrosive liquid, Acidic inorganic N.O.S. (Hydrochloric acid) 8, PG II					
SECTION XV - PREPARATION DATA					
Prepared By: Ron Camp					
Telephone Number: 651-481-1900					
Date: 4-12					
SECTION XVI - REGULATORY INFORMATION					
US Federal Regulations					
TSCA Status: All ingredients listed.					
CERCLA Reportable Quality: > 5,000 lbs.					
SARA Title III					
Section 302 Extremely Hazardous Chemicals: None					
Section 311/312 Hazard Category: Immediate health, chronic health					
Section 313 Toxic Chemicals: Hydrochloric acid					
State Regulations					
International Regulations					
SECTION XVII - OTHER INFORMATION					
None					
N. Ap. - Not Applicable; N.Av. - Not Available					

NFPA SYSTEM

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

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