

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Identity (As Used on Label and List): 4 Foamy MAC (Super Concentrate) Product Class: Mild Acid Restroom 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	Organic Acid Salt 5 - 10 CAS # (Proprietary)
B	Biodegradable Surfactant 1 - 5 CAS # (Proprietary Mixture)
C	Lauramine Oxide 1 - 5 CAS # 1643-20-5
D	Water 60 - 100 CAS #7732-18-5
E	Fragrance (Proprietary) < 0.5
SECTION III - HAZARDS IDENTIFICATION	
Emergency Overview	
Appearance and Odor: Clear Green Liquid, Citrus Fresh Fragrance.	
Primary Hazards: Irritating to eyes. Respiratory irritation from spray mist.	
Potential Health Hazards	
Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X	
Eye: Will cause eye irritation.	
Skin: Prolonged or repeated exposure can cause irritation.	
Ingestion: May be harmful or fatal if swallowed.	
Inhalation: Exposure to spray mists can cause respiratory irritation.	
Signs and Symptoms of Exposure: Irritation on direct contact. Coughing or shortness of breath when spray mists are inhaled.	
Carcinogenicity: NTP? No IARC Monographs? No	
OSHA Regulated? No	
Target Organ (s): No additional data.	
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: Do not induce vomiting. If person can swallow, give several glasses of water. Get immediate medical attention. Eye Contact: Flush eyes with running water for at least 15 minutes. Get medical attention. Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. Inhalation: Move to fresh air.	
Sources Used: Raw material data, general toxicology from the trade for similar products.	
SECTION V - FIRE FIGHTING MEASURES	
Flammability: No Autoignition Temperature: N. Ap.	
Flash Point (method used): None	
Flammable Limits: N. Ap. LEL UEL	
Extinguishing Media N. Ap.	
Water? x Foam? x Water Fog? x	
Alcohol Foam? CO ₂ ? Dry Chemical? x	
Vaporizing Liquid? Other?	
Special Fire Fighting Procedures: N. Ap.	
Unusual Fire and Explosion Hazards: N. Av.	
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	
Ventilation: Local Exhaust: Not required Special: Not required	
Mechanical (General): Normal good ventilation sufficient.	
Other: Not required	
Protective Gloves: Chemical resistant rubber.	
Eye Protection: Approved safety goggles or glasses. Footwear: Not required	
Other Protective Clothing or Equipment: Not required	
Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.	

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: Approximately 212°F (100°C) pH: < 1.0					
Specific Gravity (H ₂ O) = 1: 1.02 % Volatile: > 80					
Vapor Density (Air = 1): < 1 Odor Threshold: N. Av.					
Evaporation Rate (Butyl Acetate = 1): N. Av. Oil/Water Distribution					
Solubility in Water: Complete Coefficient: N. Av.					
Vapor Pressure (MM HG): N. Av.					
Melting Point: N. Ap.					
SECTION X - STABILITY AND REACTIVITY					
Stability: Unstable: Stable: X					
Conditions to Avoid: Heating above 110C results in an exothermic decomposition with rapid release of CO ₂ gas.					
Incompatibility (materials to avoid): Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g. chlorine bleach, sulfides, or cyanides will liberate toxic gasses. Contact with alkaline materials will generate heat.					
Do not use on marble, terrazzo or natural stone.					
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	1 mg/m3	1 mg/m3	N. Ap.	4,400 mg/kg (rat, oral)	7.7 mg/L (rat, 4 hrs.)
B	None	None	N. Av.	None	None
C	None	None	N. Av.	None	None
D	None	None	N. Av.	None	None
E	None	None	N. Av.	N. Av.	N. Av.
Teratogen, Mutagen, Reproductive Toxin Status: No					
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 in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewered, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.					
RCRA Hazard Class: D002, Characteristic corrosive					
SECTION XIV - TRANSPORT INFORMATION					
Shipping Classification:					
US DOT: Not Regulated, Compound, Cleaning Liquid N.O.I.					
Air Transportation, Water Transportation, Canadian T.D.G.: Corrosive liquid, N.O.S. (Containing Urea Monohydrochloride), class 8					
UN Number: UN1760					
Packing Group: III					
Note: This material is corrosive to aluminum only. Non-Corrosive to skin & mild steel.					
SECTION XV - PREPARATION DATA					
Prepared By: Mike Elms					
Telephone Number: 651-481-1900					
Date: 12-09					
SECTION XVI - REGULATORY INFORMATION					
US Federal Regulations					
TSCA Status: All ingredients listed.					
CERCLA Reportable Quality: None					
SARA Title III					
Section 302 Extremely Hazardous Chemicals: None					
Section 311/312 Hazard Category: None					
Section 313 Toxic Chemicals: None					
State Regulations					
International Regulations					
WHMIS Controlled Product Hazard					
Class D: Division 2B					
Class E: Note: This material is corrosive to aluminum only. Non-Corrosive to Skin and Mild Steel.					
SECTION XVII - OTHER INFORMATION					
None					
N. Ap. - Not Applicable; N.Av. - Not Available					

NFPA SYSTEM

2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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