

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION		
Identity (As Used on Label and List): Multi-Clean MAC Cleaner		
Product Class: Mild acid cleaner		
Emergency Telephone Number: 800-255-3924		
Telephone Number for Information: 651-481-1900		
Manufacturer's Name and Address: Multi-Clean®, A Division of Minuteman International, Inc. 600 Cardigan Road Shoreview, MN 55126		
SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS		
Hazardous Components (Specific Chemical Identity):		
Chemical	Common Name(s)	%
A	Hydroxyacetic acid CAS #79-14-1	7 - 13
B	Nonylphenol ethoxylates CAS #9016-45-9	1 - 5
C	Water CAS #7732-18-5	60 - 100
SECTION III - HAZARDS IDENTIFICATION		
Emergency Overview		
Appearance and Odor: Blue liquid, floral odor.		
Primary Hazards: Corrosive		
Potential Health Hazards		
Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation:		
Eye: May cause burns on contact.		
Skin: May cause burns on contact.		
Ingestion: May be harmful if swallowed.		
Inhalation: No hazardous vapors.		
Signs and Symptoms of Exposure: Irritation on direct contact.		
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. Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person. Eye Contact: Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention. Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.		
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?	Foam?	Water Fog?
Alcohol Foam?	CO ₂ ?	Dry Chemical?
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 - 2			
Specific Gravity (H ₂ O) = 1: 1.040		% 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: N. Ap.					
Incompatibility (materials to avoid): N. Av.					
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	None	None	3 ppm	1,950 mg/kg (rat, oral)	7.7 mg/L (rat, 4 hrs.)
B	None	None	N. Av.	2,100 mg/kg (rat, oral)	> 200 mg/L (rat, 1 hr.)
C	None	None	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: corrosive liquid, acidic organic, N.O.S. (Containing hydroxide acid), class 8					
UN Number: UN3265					
Packing Group: II					
SECTION XV - PREPARATION DATA					
Prepared By: Mike Elms					
Telephone Number: 651-481-1900					
Date: 9/07					
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: Immediate health, chronic health					
Section 313 Toxic Chemicals: None					
State Regulations					
NOTICE STATE OF CALIFORNIA					
Warning: This product may contain chemicals known to the State of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacture of this product.					
International Regulations					
WHMIS Controlled Product Hazard Class: E					
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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