MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION	SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS
Identity (As Used on Label and List): Multi-Clean H.D. MAC 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	Boiling Point: Approximately 212°F (100°C) pH: 1 - 2 Specific Gravity (H20) = 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
SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS	Stability: Unstable: Stable: X
Hazardous Components (Specific Chemical Identity): Chemical Common Name(s) % A Hydroxyacetic acid 7 - 13 CAS #79-14-1 B Nonylphenol ethoxylate 1 - 5 CAS #9016-45-9	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.
C Water 60 - 100	SECTION XI - TOXICOLOGICAL INFORMATION Chemical OSHA PEL ACGIH TLV Recom. LD50 LC50
CAS #7732-18-5	A None None 3 ppm 1,950 mg/kg 7.7 mg/L
SECTION III - HAZARDS IDENTIFICATION	(rat, oral) (rat, 4 hrs.)
Emergency Overview Appearance and Odor: Blue liquid, floral odor.	B None None N. Av. 2,100 mg/kg >200 mg/L
Primary Hazards: Corrosive	(rat, oral) (rat, oral) C None None N. Av.
Potential Health Hazards Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X Eye: May cause burns on contact. Inhalation: X 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	Teratogen, Mutagen, Reproductive Toxin Status: No Toxicologically Synergistic Products: N. Av. SECTION XII - ECOLOGICAL INFORMATION Ecotoxicological Information: N. Av. Chemical Fate Information: N. Av.
OSHA Regulated? No	
Target Organ (s): No additional data. Medical Conditions Generally Aggravated by Exposure: N. Av. Health Hazards, Chronic: 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
SECTION IV - FIRST AID MEASURES	materials and/or contaminates being cleaned as well as state, federal and local sewer
Emergency and First Aid Procedures: If Swallowed: Do not induce vomiting. Drink water in large amounts and call a physician	commission regulations. RCRA Hazard Class: DOO2, Characteristic corrosive
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 XIV - TRANSPORT INFORMATION Shipping Classification: corrosive liquid, acidic organic, N.O.S. (Containing hydroxide acid), class 8 UN Number: UN3265 Packing Group: II
SECTION V - FIRE FIGHTING MEASURES	SECTION XV - PREPARATION DATA
Flammability: No Autoignition Temperature: N. Ap. Flash Point (method used): None Extinguishing Media N. Ap. Flammable Limits: N. Ap. LEL UEL Extinguishing Media N. Ap. Description	Prepared By: Mike Elms Telephone Number: 651-481-1900 Date: 4/04
Water? Foam? Water Fog?	SECTION XVI - REGULATORY INFORMATION US Federal Regulations
Alcohol Foam? CO2? 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	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
SECTION VI - ACCIDENTAL RELEASE MEASURES	NOTICE STATE OF CALIFORNIA Warning: This product may contain chemicals known to the State of California to cause
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.	cancer or reproductive defects as trace impurities in the state of california to cause used in the manufacture of this product. International Regulations WHMIS Controlled Product Hazard Class: E
SECTION VII - HANDLING AND STORAGE	SECTION XVII - OTHER INFORMATION
Precautions to be Taken in Handling and Storing: Normal care in handling and storage.	None
Other Precautions: Keep out of reach of children. Keep from freezing.	N. Ap Not Applicable; N.Av Not Available
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.	NFPA SYSTEM _2 A. Health Hazard _0 A. Fire Hazard _0 A. Reactivity Hazard
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.	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. IMINITEMAN 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.