

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION Identity (As Used on Label and List): Ful-Trole 64 Product Class: Disinfectant cleaner, EPA # 10324-80-5449 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 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: Natural rubber or synthetic. 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 II - COMPOSITION/INFORMATION ON INGREDIENTS Hazardous Components (Specific Chemical Identity): Chemical Common Name(s) % A Quaternary Ammonium Chloride Surfactants 5.5 CAS #: 68424-85-1, 32426-11-2, 5538-94-3 & 7173-51-5 B Tetrasodium EDTA, Tetrahydrate 1 - 5 CAS #64-02-8 C Alcohol Ethoxylates 1 - 5 CAS #34398-01-1 D Sodium Metasilicate, Pentahydrate 0.3 - 1.0 CAS #6834-92-0 E Water 60 - 100 CAS #7732-18-5		SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS Boiling Point: Approximately 212°F pH: 12.0 - 12.4 Specific Gravity (H2O) = 1: 1.0 % Volatile: > 85 Vapor Density (Air = 1): N. Av. 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 III - HAZARDS IDENTIFICATION Emergency Overview Appearance and Odor: Yellow Liquid, Lemon Fragrance; Purple Liquid, Floral Fragrance Red Liquid, Floral Fragrance. Primary Hazards: Corrosive Potential Health Hazards Route(s) of Entry: Skin Absorption: Ingestion: X Inhalation: Eye: Corrosive. May cause burns or irreversible eye damage. Skin: May cause burns if contact occurs. May be fatal if absorbed through the skin. Ingestion: Harmful if swallowed. Inhalation: Harmful if inhaled. Signs and Symptoms of Exposure: Irritation and/or burning sensation on 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 X - STABILITY AND REACTIVITY Stability: Unstable: Stable: X Conditions to Avoid: Mixing with strong oxidizers or reducing agents. Incompatibility (materials to avoid): Strong oxidizers or reducing agents. Hazardous Decomposition or By-products: Toxic hydrogen chloride fumes, oxides of carbon and nitrogen. Hazardous Polymerization: May occur: Will not occur: X	
SECTION IV - FIRST AID MEASURES Emergency and First Aid Procedures Have the product container or label with you when calling a poison control center or doctor, or going for treatment. IF ON SKIN OR CLOTHING: Take off Contaminated Clothing. Rinse skin immediately with plenty of water for 15-20 minutes. IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice. IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration preferably mouth-to-mouth. Call a poison control center or doctor for treatment advice. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Sources Used: Raw material data, general toxicology from the trade for similar products EPA approved label.		SECTION XI - TOXICOLOGICAL INFORMATION Chemical OSHA PEL ACGIH TLV Recom. LD50 LC50 A 100 ppm 100 ppm N. Av. 366 mg/kg N. Av. (rat, oral) B N. Av. N. Av. N. Av. > 2,000 mg/kg N. Av. (rat, oral) C N. Av. N. Av. N. Av. 0.7-1.7 gm/kg N. Av. (rat, oral) D N. Av. N. Av. 2 mg/M3 800 mg/kg N. Av. (rat, oral) E N. Av. N. Av. N. Av. N. Av. N. Av. Product LD50: 2.72 gm/kg Teratogen, Mutagen, Reproductive Toxin Status: No Toxicologically Synergistic Products: N. Av.	
SECTION V - FIRE FIGHTING MEASURES Flammability: No Autoignition Temperature: N. Ap. Flash Point (method used): Over 200°F LEL UEL Flammable Limits: N. Ap. Extinguishing Media: Water? X Foam? X Water Fog? X Alcohol Foam? CO2? X Dry Chemical? X Vaporizing Liquid? Other? Special Fire Fighting Procedures: Cool fire exposed containers with spray. Must wear MSHA/NIOSH approved self contained breathing apparatus. Unusual Fire and Explosion Hazards: Explosive mixtures can form with air. Combustion products are toxic. Solvents can travel to an ignition source and flash back. TDG Flammability Classification: Non-flammable Sensitivity to Mechanical Impact: None Sensitivity to Static Discharge: None		SECTION XII - ECOLOGICAL INFORMATION Ecotoxicological Information: N. Av. Chemical Fate Information: N. Av.	
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 XIII - DISPOSAL CONSIDERATIONS Waste Disposal Method: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance. RCRA Hazard Class: Regulated by FIFRA	
SECTION VII - HANDLING AND STORAGE Precautions to be Taken in Handling and Storing: Do not contaminate food or water by storage or disposal. Store only in original containers. See label instructions for container disposal. Do not reuse empty container. Other Precautions: Keep out of reach of children. Do not breathe spray mist.		SECTION XIV - TRANSPORT INFORMATION Shipping Classification: Disinfectant Liquid Corrosive (Quaternary Ammonium Compound), Class 8 UN Number: 1903. Packing Group: II	
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: Natural rubber or synthetic. 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 XV - PREPARATION DATA Prepared By: Mike Elms Telephone Number: 651-481-1900 Date: 6/07	
SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS Boiling Point: Approximately 212°F pH: 12.0 - 12.4 Specific Gravity (H2O) = 1: 1.0 % Volatile: > 85 Vapor Density (Air = 1): N. Av. 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 XVI - REGULATORY INFORMATION US Federal Regulations TSCA Status: All ingredients listed. CERCLA Reportable Quality: N. Av. SARA Title III Section 302 Extremely Hazardous Chemicals: None Section 311/312 Hazard Category: Immediate health hazard Section 313 Toxic Chemicals: None State Regulations CALIFORNIA PROPOSITION 65 - 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.	
SECTION X - STABILITY AND REACTIVITY Stability: Unstable: Stable: X Conditions to Avoid: Mixing with strong oxidizers or reducing agents. Incompatibility (materials to avoid): Strong oxidizers or reducing agents. Hazardous Decomposition or By-products: Toxic hydrogen chloride fumes, oxides of carbon and nitrogen. Hazardous Polymerization: May occur: Will not occur: X		SECTION XVII - OTHER INFORMATION None	
SECTION XI - TOXICOLOGICAL INFORMATION Chemical OSHA PEL ACGIH TLV Recom. LD50 LC50 A 100 ppm 100 ppm N. Av. 366 mg/kg N. Av. (rat, oral) B N. Av. N. Av. N. Av. > 2,000 mg/kg N. Av. (rat, oral) C N. Av. N. Av. N. Av. 0.7-1.7 gm/kg N. Av. (rat, oral) D N. Av. N. Av. 2 mg/M3 800 mg/kg N. Av. (rat, oral) E N. Av. N. Av. N. Av. N. Av. N. Av.		NFPA SYSTEM 2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard	
SECTION XII - ECOLOGICAL INFORMATION Ecotoxicological Information: N. Av. Chemical Fate Information: N. Av.		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.	