

**PRECAUTIONARY STATEMENTS:**  
**KEEP OUT OF REACH OF CHILDREN.**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS.**  
**DANGER CORROSIVE:** Causes eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.  
**STATEMENT OF PRACTICAL TREATMENT:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink promptly large quantities of water. Avoid alcohol. Call a physician immediately. Never give anything by mouth to an unconscious person.  
**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.  
**STORAGE AND DISPOSAL:**  
 Do not contaminate water, food, or feed by storage or disposal. Do not store on side. Avoid creasing or impacting of side walls.  
**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray or mixture of 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.  
**CONTAINER DISPOSAL:** Plastic Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or by incineration, if allowed by state and local authorities. Metal Container: Triple rinse (or equivalent). Then offer for recycling, reconditioning, or dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**DIRECTIONS FOR USE:**  
 It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Apply FUL-TROLE to walls, floors and other hard (inanimate) non-porous surfaces such as tables, chairs, countertops, sinks, toilet bowls and urinals with a cloth, mop, swab or mechanical spray device so as to thoroughly wet surfaces. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or when use-solution becomes visibly dirty.  
**Disinfection** - to disinfect hard, non-porous surfaces, add 2 oz. per gallon of water. Treated surfaces must remain wet for 10 minutes. The activity of FUL-TROLE has been evaluated in the presence of 5% serum by the AOAC Use Dilution Test and found to be effective against a broad spectrum of gram negative and gram positive organisms tested: Escherichia coli, Salmonella typhi, Salmonella choleraesuis, Klebsiella pneumoniae, Staphylococcus aureus, Salmonella schottmuelleri, Streptococcus pyogenes, Shigella dysenteriae, Serratia marcescens, Brevibacterium ammoniagenes. FUL-TROLE is effective against Trichophyton mentagrophytes (the athlete's foot fungus) when used in areas such as locker rooms, showers, bath and exercise areas, dressing rooms, etc., at 2 oz./gallon.  
**\*At 2 oz./gallon, FUL-TROLE was evaluated in the presence of 5% serum and found to be effective against the following viruses: Influenza A/Brazil, Herpes Simplex and Vaccinia, on inanimate environmental surfaces.**  
**Disinfecting Toilet Bowls.** Remove gross soils from surfaces with a bowl swab or brush. Next, evacuate bowl water and apply a 2 oz/gal. solution of FUL-TROLE to the bowl swab and sides of bowl. Swab the bowl completely, making sure to get under the rim. Let stand for ten (10) minutes and flush.

**Mold and Mildew Control.** At 2 oz./gallon, FUL-TROLE will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, non-porous surfaces (as indicated in general instructions above). Allow to dry on surface and repeat when mildew growth returns.  
**Sanitizing - Non-Food Contact Surfaces (such as floors, walls, tables, etc.).** At 5 oz. per 4.5 gallon use-level, 30 seconds contact time, FUL-TROLE is an effective sanitizing agent against Staphylococcus aureus and Klebsiella pneumoniae in the presence of 5% serum on porous and non-porous environmental surfaces.

**CARPET SANITIZING Against Odor Causing Bacteria**  
 FUL-TROLE may be used to clean and sanitize carpet against gram-negative and gram-positive odor causing bacteria. Its effective detergent system cleans the carpet while its quaternary ammonium surfactant reduces the growth of odor causing bacteria, effectively deodorizing the carpet. **DIRECTIONS:** Extraction: 1. Vacuum carpet. 2. Prepare a 2 oz./gallon solution of FUL-TROLE and clean the carpet using normal hot water extraction equipment and procedures. Spin Bonnetting: 1. Vacuum carpet. 2. Pre-spray traffic lanes, heavily soiled areas and spots with a 2 oz./gallon solution of FUL-TROLE. 3. Soak bonnet in a 2 oz./gallon solution of FUL-TROLE, wring out thoroughly and scrub carpet. Note: Do not use on wool or stain resistant nylon carpets. Replace solution daily or when it becomes visibly dirty.

## MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

<b>SECTION I</b>			
Identify (As Used on Label and List): Multi-Clean Ful-Trole			
Date Prepared: 12/3/92			
Emergency Telephone Number: 800-255-9327			
Telephone Number for Information: 612-481-1900			
Manufacturer's Name and Address: Hako Minuteman Inc./Multi-Clean Division 600 Cardigan Road Shoreview, MN 55126			
<b>SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION</b>			
Hazardous Components (Specific Chemical Identity):			
Common Name(s)	OSHA PEL	ACGIH TLV	Recommended % (Optional)
Quaternary ammonium chloride surfactants	CAS #s 68424-95-5 and 139-08-2	None	NK 1.8
Tetrasodium ethylenediamine tetra-acetate	CAS #64-02-8	None	NK 3-7
Nonionic surfactant (proprietary)	None	None	NK <5
Sodium metasilicate, pentahydrate	CAS #6834-92-0	None	NK >3
Water	CAS #7732-18-5	None	NK <85
<b>SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS</b>			
Boiling Point: Approximately 212°F			
Specific Gravity (H2O) = 1: 1.020			
Vapor Density (Air = 1): ND			
Evaporation Rate (Butyl Acetate = 1): ND			
Solubility in Water: Complete			
Vapor Pressure (MM HG): ND			
Melting Point: NA			
Appearance and Odor: Red liquid, mint odor; yellow liquid, lemon odor or green liquid, pine odor.			
<b>SECTION IV - FIRE AND EXPLOSION HAZARD DATA</b>			
Flash Point (method used): None			
Flammable Limits: NA LEL UEL			
Extinguishing Media			
Water?	Foam?	Water Fog?	
Alcohol Foam?	CO2?	Dry Chemical?	
Vaporizing Liquid?	Other?	NA	
Special Fire Fighting Procedures: NA			
Unusual Fire and Explosion Hazards: NK			
<b>SECTION V - REACTIVITY DATA</b>			
Stability: Unstable: Stable: X			
Conditions to Avoid: NK			
Incompatibility (materials to avoid): Do not mix other cleaners, detergents or chemicals.			
Hazardous Decomposition or By-products: Carbon and nitrogen oxides, ammonia, hydrogen chloride.			
Hazardous Polymerization: May occur: Will not occur: X			
Conditions to avoid: NA			
<b>SECTION VI - HEALTH HAZARD DATA</b>			
Route(s) of Entry: Inhalation? X Skin? X Ingestion? X			
Health Hazards (Acute and Chronic): Causes severe eye and skin damage. Harmful if swallowed.			
Carcinogenicity: NTP? No IARC Monographs? No			
OSHA Regulated? No			
Signs and Symptoms of Exposure: See Health Hazards.			
Medical Conditions Generally Aggravated by Exposure: NK			

**Emergency and First Aid Procedures:**  
 For eye contact, immediately flush eyes with running water for at least 15 minutes. Call a physician. For skin contact, immediately flush skin with water for 15 minutes. Remove and wash contaminated clothing before reuse. If swallowed, drink large quantities of water and call a physician immediately. Avoid alcohol. **NOTE TO PHYSICIAN:** Probable mucosal damage may contradict the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**  
**Steps to be Taken in Case Material is Released or Spilled:**  
 Dike and contain spill with inert material (sand, earth, etc.). Collect spill with absorbent material (example: floor-dri) or vacuum immediately and dispose of according to local, state and federal regulations. Thoroughly rinse affected area with water.  
**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.  
**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 VII - CONTROL MEASURES**  
**Respiratory Protection (Specify Types):** NR  
**Ventilation:** Local Exhaust: NA Special: NR  
**Mechanical (General):** Normal good ventilation sufficient.  
**Other:** NR  
**Protective Gloves:** Natural rubber or synthetic.  
**Eye Protection:** Approved safety goggles or shield.  
**Other Protective Clothing or Equipment:** NR  
**Work/Hygienic Practices:** Do not contaminate food or beverages with cleaning chemicals.

NA - Not Applicable, NE - Not Established, NK - Not Known, ND - Not Determined, NR - Not Required

**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 raw materials used in the manufacture of this product.

### NFPA SYSTEM

**2** A. Health Hazard: 4 - DANGER - May be fatal on short exposure. Specialized protective equipment required; 3 - WARNING - Corrosive or toxic. Avoid skin contact or inhalation; 2 - WARNING - May be harmful if inhaled or absorbed; 1 - CAUTION - May cause irritation; 0 - No unusual hazard. \*Health hazard describes short term contact or inhalation hazard only.

**0** A. Fire Hazard: 4 - DANGER - Flammable gas or extremely flammable liquid; 3 - WARNING - Flammable liquid flashpoint below 100°F; 2 - CAUTION - Combustible liquid flashpoint of 100°F to 200°F; 1 - CAUTION - COMBUSTIBLE, if heated; 0 - NOT COMBUSTIBLE.

**0** A. Reactivity Hazard: 4 - DANGER - Explosive material at room temperature; 3 - DANGER - May be explosive if shocked, heated under confinement, or mixed with water; 2 - WARNING - Unstable, or may react if mixed with water; 1 - CAUTION - May react if heated, or mixed with water; 0 - STABLE, not reactive when mixed with water.

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