

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 II - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical Identity):

Chemical	Common Name(s)	%
A	Quaternary Ammonium Chloride Surfactants CAS #: 68424-85-1, 32426-11-2, 5538-94-3 & 7173-51-5	5.5
B	Tetrasodium EDTA, Tetrahydrate CAS #64-02-8	1 - 5
C	Nonylphenol Ethoxylates CAS #9016-45-9	1 - 5
D	Sodium Metasilicate, Pentahydrate CAS #6834-92-0	0.3 - 1.0
E	Water CAS #7732-18-5	60 - 100

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odor: Yellow Liquid, Lemon Fragrance; Purple Liquid, Floral Fragrance; Red Liquid, Floral Fragrance.

Primary Hazards: Irritant

Potential Health Hazards

Route(s) of Entry: Skin Absorption: Ingestion: X Inhalation:

Eye: Corrosive. Severe eye damage can result from direct contact.

Skin: Severe irritation.

Ingestion: May be fatal. Burning pain in the mouth, throat, abdomen, severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, convulsions.

Inhalation: Irritation of mucous membrane can be caused by solvent vapors or mists of products.

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 IV - FIRST AID MEASURES

Emergency and First Aid Procedures:

Ingestion: If Swallowed drink promptly, a large quantity of egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. 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. Obtain medical attention. **Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

Sources Used: Raw material data, general toxicology from the trade for similar products, EPA approved label.

SECTION V - FIRE FIGHTING MEASURES

Flammability: No **Autoignition Temperature:** N. Av.

Flash Point (method used): Over 200°F

Flammable Limits: N. Av.

LEL

UEL

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 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:

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 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 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 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 XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	100 ppm	100 ppm	N. Av.	366 mg/kg (rat, oral)	N. Av.
B	N. Av.	N. Av.	N. Av.	> 2,000 mg/kg (rat, oral)	N. Av.
C	N. Av.	N. Av.	N. Av.	2,100 mg/kg (rat, oral)	> 200 mg/l (rat, 1 hr.)
D	N. Av.	N. Av.	2 mg/M ³	800 mg/kg (rat, oral)	N. Av.
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 XII - ECOLOGICAL INFORMATION

Ecotoxicological Information: N. Av.

Chemical Fate Information: N. Av.

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 XIV - TRANSPORT INFORMATION

Shipping Classification: Compound Cleaning, N.O.I.

UN Number: N. Ap.

Packing Group: N. Ap.

SECTION XV - PREPARATION DATA

Prepared By: Mike Elms

Telephone Number: 651-481-1900

Date: 3/02

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 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

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.