

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, DIN: 02249200
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	Alcohol Ethoxylates CAS #34398-01-1	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

Specific Gravity (H₂O) = 1: 1.0

Vapor Density (Air = 1): N. Av.

Evaporation Rate (Butyl Acetate = 1): N. Av.

Solubility in Water: Complete

Vapor Pressure (MM HG): N. Av.

Melting Point: N. Av.

pH: 12.0 – 12.4

% Volatile: > 85

Odor Threshold: N. Av.

Oil/Water Distribution

Coefficient: 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 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.	0.7-1.7 gm/kg (rat, oral)	N. Av.
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.