

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

**SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION**  
**Identity (As Used on Label and List):** Multi-Clean #4 F.A.S.T.  
**Product Class:** Mild acid cleaner  
**Emergency Telephone Number:** 800-225-3924  
**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

**SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous Components (Specific Chemical Identity):**

Chemical	Common Name(s)	%
A	Hydroxyacetic acid CAS #79-14-1	3 - 7
B	Sulfamic acid CAS #5329-14-6	3 - 7
C	Dodecylbenzene sulfonic acid CAS #27176-87-0	5 - 10
D	Propylene glycol n-butyl ether CAS #5131-66-8	1 - 5
E	Dipropylene glycol methyl ether CAS #34590-94-8	1 - 5
F	Water CAS #7732-18-5	60 - 100

**SECTION III - HAZARDS IDENTIFICATION**

**Emergency Overview**  
**Appearance and Odor:** Green liquid, mint odor.  
**Primary Hazards:** Corrosive

**Potential Health Hazards**  
**Route(s) of Entry:** Skin Absorption: X Ingestion: Inhalation: X  
**Eye:** May cause burns on contact.  
**Skin:** May cause burns on contact.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** Overexposure to vapors or mists may be harmful.  
**Signs and Symptoms of Exposure:** Irritation.  
**Carcinogenicity:** NTP? No IARC Monographs? No  
**OSHA Regulated?** No  
**Target Organ (s):** Eyes, skin and respiratory system. Gross overexposure to vapors may affect central nervous system, liver and kidneys.  
**Medical Conditions Generally Aggravated by Exposure:** N. Av.  
**Health Hazards, Chronic:** Overexposure to Dipropylene glycol methyl ether or its components has apparently been found to cause the following effects in laboratory animals, liver abnormalities and kidney damage.

**SECTION IV - FIRST AID MEASURES**

**Emergency and First Aid Procedures:**  
**If Swallowed:** Do not induce vomiting. Drink water in large amounts and 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. If irritation persists, obtain medical attention. **Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. **Inhalation:** If ill effects occur from breathing vapors, remove victim to fresh air and quite, keep warm. Contact physician.  
**Sources Used:** Raw material data, general toxicology from the trade for similar products.

**SECTION V - FIRE FIGHTING MEASURES**

**Flammability:** No **Autoignition Temperature:** N. Av.  
**Flash Point (method used):** None  
**Flammable Limits:** N. Av. LEL UEL  
**Extinguishing Media:** N. Av.  
**Water?** **Foam?** **Water Fog?**  
**Alcohol Foam?** **CO2?** **Dry Chemical?**  
**Vaporizing Liquid?** **Other?**  
**Special Fire Fighting Procedures:** N. Av.  
**Unusual Fire and Explosion Hazards:** N. Av.  
**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:**  
Normal care in handling and storage.  
**Other Precautions:** Keep out of reach of children. Keep from freezing.

**SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Respiratory Protection (Specify Types):** Not required. Dust/mist respirator is recommended to prevent inhalation of mists when spraying cleaning chemicals.  
**Ventilation:** **Local Exhaust:** Not required **Special:** Not required  
**Mechanical (General):** Ventilate to keep vapor levels below TLVs and PELs, listed in Section XI. **Other:** Not required  
**Protective Gloves:** Chemical resistant rubber.  
**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 (100°C) **pH:** 1 - 2  
**Specific Gravity (H2O) = 1:** 1.040 **% Volatile:** 60 - 100  
**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. Av.

**SECTION X - STABILITY AND REACTIVITY**  
**Stability:** Unstable: Stable: X  
**Conditions to Avoid:** N. Av.  
**Incompatibility (materials to avoid):** Bleach  
**Hazardous Decomposition or By-products:**  
**Hazardous Polymerization:** May occur: Will not occur: X  
**Conditions to Avoid:** N. Av.

**SECTION XI - TOXICOLOGICAL INFORMATION**

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	None	None	3 ppm	1950 mg/kg (rat, oral)	7.7 mg/L (rat, 4 hr.)
B	None	None	N. Av.	1600 mg/kg	N. Av.
C	N. Av.	N. Av.	N. Av.	1,300 mg/kg (rat, oral)	> 200 mg/L (rat, 1 hr.)
D	None	None	None	3300 mg/kg (rat, oral)	N. Av.
E	100 ppm	100 ppm	N. Av.	5.6 gm/kg (rat, oral)	> 33,000 ppm (rat)
F	None	None	None	N. Av.	N. Av.

**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:**  
Neutralize and dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewerred, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.  
**RCRA Hazard Class:** D002

**SECTION XIV - TRANSPORT INFORMATION**

**Shipping Classification:** Corrosive liquid, acidic organic, N.O.S.  
(hydroxyacetic acid) 8  
**UN Number:** UN3265  
**Packing Group:** II

**SECTION XV - PREPARATION DATA**  
**Prepared By:** Mike Elms  
**Telephone Number:** 651-481-1900  
**Date:** 5/05

**SECTION XVI - REGULATORY INFORMATION**

**US Federal Regulations**  
**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:** Dipropylene glycol methyl ether (glycol ether).  
**WHMIS Controlled Product Hazard Class:** E

**SECTION XVII - OTHER INFORMATION**  
None  
N. Av. - Not Applicable; N. Av. - Not Available

**NFPA SYSTEM**  
2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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