

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Identity (As Used on Label and List): Multi-Clean Mastery dL
Product Class: Citrus solvent degreaser
Emergency Telephone Number: 800-255-3924
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	d-Limonene CAS #5989-27-5	60 - 100
B	Dodecylbenzene sulfonic acid CAS #26264-05-1	5 - 10
C	Alkoxylated amine CAS #68478-95-5	1 - 5
D	Ethoxylated alkyl amine CAS #68478-95-5	1 - 5
E	Water CAS #7732-18-5	10 - 30

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odor: Light amber liquid, citrus aroma.
Primary Hazards: Irritant

Potential Health Hazards

Route(s) of Entry: Skin Absorption: X Ingestion: Inhalation: X
Eye: Severe eye irritant.

Skin: May cause irritation.

Ingestion: May be harmful if swallowed.

Inhalation: May irritate mucous membranes. Overexposure to vapors may cause nausea.

Signs and Symptoms of Exposure: Irritation on direct contact.

Carcinogenicity: NTP? No IARC Monographs? No
OSHA Regulated? No

Target Organ (s): Eyes, skin, mucous membranes.

Medical Conditions Generally Aggravated by Exposure: N. Av.

Health Hazards, Chronic: Repeated skin contact may cause sensitization.

SECTION IV - FIRST AID MEASURES

Emergency and First Aid Procedures:

If Swallowed: Drink two or more glasses of water 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. Obtain medical attention. **Skin Contact:** Wash with soap and water and flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.

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

SECTION V - FIRE FIGHTING MEASURES

Flammability: Combustible **Autoignition Temperature:** N. Av.

Flash Point (method used): 120°F Tcc (49°C)

Flammable Limits: N. Av. LEL UEL

Extinguishing Media

Water? **Foam?** X **Water Fog?**
Alcohol Foam? **CO₂?** X **Dry Chemical?** X
Vaporizing Liquid? **Other?**

Special Fire Fighting Procedures: N. Av.

Unusual Fire and Explosion Hazards: None known

TDG Flammability Classification: 3.3

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: Above flashpoint.

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. Contact lenses should not be worn.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Types): NIOSH approved organic vapor mask required if ventilation is insufficient to maintain a satisfactory vapor level.

Ventilation: **Local Exhaust:** Not required **Special:** Not required

Mechanical (General): Provide adequate ventilation to exhaust vapors. **Other:** Not required

Protective Gloves: Chemical resistant rubber.

Eye Protection: Approved safety goggles or glasses.

Footwear: Not normally required.

Other Protective Clothing or Equipment: Wear dust/mist respirator if applied by mechanical sprayer to prevent excessive inhalation of cleaner mists.

Work/Hygienic Practices: Avoid excessive breathing of vapor or mist. Avoid repeated or prolonged contact with skin.

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N. Av., d-Limonene 349°F (176°C)

pH: 7

Specific Gravity (H₂O) = 1: .891

% Volatile: > 80

Vapor Density (Air = 1): > 1

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): Severe oxidizing agents.

Hazardous Decomposition or By-products: N. Av.

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	N. Av.	5 g/kg (oral, rat)	N. Av.
B	None	None	N. Av.	N. Av.	N. Av.
C	None	None	50 ppm	N. Av.	N. Av.
D	None	None	50 ppm	N. Av.	N. Av.
E	None	None	N. Av.	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:

Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewer, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.

RCRA Hazard Class: D001, Characteristic flammable

SECTION XIV - TRANSPORT INFORMATION

Shipping Classification: Flammable liquid, N.O.S. (Containing terpene), class 3

UN Number: 1993

Packing Group: III

SECTION XV - PREPARATION DATA

Prepared By: Mike Elms

Telephone Number: 651-481-1900

Date: 4/08

SECTION XVI - REGULATORY INFORMATION

US Federal Regulations

TSCA Status: All ingredients listed.

CERCLA Reportable Quantity: None

SARA Title III

Section 302 Extremely Hazardous Chemicals: None

Section 311/312 Hazard Category: Immediate health, chronic health.

Section 313 Toxic Chemicals: None

State Regulations

International Regulations

WHMIS Controlled Product Hazard Class: D2B, B3

SECTION XVII - OTHER INFORMATION

None

N. Av. - Not Applicable; N. Av. - Not Available

NFPA SYSTEM

1 A. Health Hazard 2 A. Fire Hazard 0 A. Reactivity Hazard

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