

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

## SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Identity (As Used on Label and List):** 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®  
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:** X  
**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  
**OSHA Regulated?** No  
**IARC Monographs?** 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?** X  
**Alcohol Foam?** X  
**Foam?** X  
**CO<sub>2</sub>?** X  
**Water Fog?** X  
**Dry Chemical?** X  
**Vaporizing Liquid?** X  
**Other?** X

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

**Specific Gravity (H<sub>2</sub>O) = 1:** .891

**Vapor Density (Air = 1):** > 1

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

**Solubility in Water:** Complete

**Vapor Pressure (MM HG):** N. Av.

**Melting Point:** N. Av.

**pH:** 7

**% Volatile:** > 80

**Odor Threshold:** N. Av.

**Oil/Water Distribution**

**Coefficient:** 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:** 12-09

## 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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