

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

## SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Identity (As Used on Label and List):** 105 Non-Volatile Dry Spotter  
**Product Class:** Solvent cleaner  
**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	Dibasic ester mixture CAS #627-93-0	15 - 40
B	Dimethyl glutarate CAS #1119-40-0	15 - 40
C	Dipropylene glycol methyl ether CAS #34590-94-8	15 - 40
D	n-Methyl pyrrolidone CAS #872-50-4	15 - 40
E	Propylene glycol n-butyl ether CAS #5131-66-8	3 - 7

## SECTION III - HAZARDS IDENTIFICATION

**Emergency Overview**  
**Appearance and Odor:** Clear liquid, mild solvent aroma.  
**Primary Hazards:** Irritant

**Potential Health Hazards**  
**Route(s) of Entry:** Skin Absorption: X Ingestion: Inhalation: X  
**Eye:** Eye irritant.  
**Skin:** May cause irritation.  
**Ingestion:** May be harmful if swallowed.  
**Inhalation:** Overexposure to vapors may be harmful.  
**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, liver, central nervous system, kidneys with overexposure.  
**Medical Conditions Generally Aggravated by Exposure:** N. Av.  
**Health Hazards, Chronic:**

## 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):** Greater than 140°F, component data.  
**Flammable Limits:** N. Av. LEL UEL  
**Extinguishing Media**  

Water?	Foam?	Water Fog?
Alcohol Foam? X	CO <sub>2</sub> ? X	Dry Chemical? X
Vaporizing Liquid?	Other? NA	

  
**Special Fire Fighting Procedures:** Waterhose stream may spread fire. Use water spray to keep container cool.  
**Unusual Fire and Explosion Hazards:** None known  
**TDG Flammability Classification:** N. Av.  
**Sensitivity to Mechanical Impact:** None  
**Sensitivity to Static Discharge:** Product above its flashpoint may emit vapors ignitable by sparks.

## 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:** Spraying of product NOT recommended. Wear dust/mist respirator if applied by 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:** 338 - 437°F (170 - 225°C) **pH:** N. Av.  
**Specific Gravity (H<sub>2</sub>O) = 1:** 1.04 **% Volatile:** Approx. 65  
**Vapor Density (Air = 1):** N. Av. **Odor Threshold:** N. Av.  
**Evaporation Rate (Butyl Acetate = 1):** < 1 **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:** Carbon dioxide, carbon monoxide.  
**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	N. Av.	N. Av.	1.5 ppm	8,191 mg/kg (rat, oral)	>10.7 mg/L
B	None	None	1.5 ppm		
C	100 ppm (skin)	100 ppm (skin)	N. Av.	> 5 ml/kg (rat)	N. Av.
D	None	None	100 ppm	4,200 mg/kg (rat, oral)	N. Av.
E	none	None	N. Av.	3,300 mg/kg (rat, oral)	N. Av.

**Teratogen, Mutagen, Reproductive Toxin Status:** n-Methyl pyrrol has been associated with fetotoxic and reduced male fertility effects with high levels of exposure.  
**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:** N.O.S.  
**UN Number:** N. Av., cleaning liquid  
**Packing Group:** N. Av.

## SECTION XV - PREPARATION DATA

**Prepared By:** Ron Camp  
**Telephone Number:** 651-481-1900  
**Date:** 4-12

## 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**

## SECTION XVII - OTHER INFORMATION

**International Regulations**  
WHMIS Controlled Product Hazard Class: D2B, B3

## SECTION XVIII - OTHER INFORMATION

None  
N. Av. - Not Applicable; N. Av. - Not Available

## NFPA SYSTEM

2 A. Health Hazard 2 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.