

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION		
Identity (As Used on Label and List): 70 Tough Green Product Class: Neutral emulsion 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	Primary Alcohol Alkoxylates CAS #68603-25-8	5 - 10
B	Propylene Glycol n-Butyl Ether CAS #5131-66-8	3 - 7
C	Dipropylene Glycol Monomethyl Ether CAS #34590-94-8	3 - 7
D	Surfactant/Hydrotrope (proprietary)	1 - 5
E	Water CAS #7732-18-5	60 - 100
SECTION III - HAZARDS IDENTIFICATION		
Emergency Overview		
Appearance and Odor: Clear green, liquid. Floral/citrus fragrance. Primary Hazards: Irritant		
Potential Health Hazards		
Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X Eye: May cause irritation on contact. Skin: May cause irritation on contact. 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): Skin, eyes, 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 Monomethyl Ether or its components has apparently been found to cause the following effects in laboratory animals; mild, reversible liver effects.		
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. 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? CO ₂ ? 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 mask recommended if working in heavy cleaner mists or spray. Ventilation: Local Exhaust: Not required Special: Not required Mechanical (General): Ventilate to keep vapor levels below TLV & PEL, listed in Section XI. 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 (100°C)		pH: 7 - 8			
Specific Gravity (H ₂ O) = 1: 1.00		% Volatile: > 85			
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): N. Av.					
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	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
B	None	None	N. Av.	3,300 mg/kg (rat, oral)	N. Av.
C	100 ppm (skin)	100 ppm (skin)	N. Av.	5.6 gm/kg (rat, oral)	>33,000 ppm (rat)
D	N. Av.	10 mgM ³	N. Av.	6,000 mg/kg	N. Av.
E	None	None	N. Av.	N. Av.	N. Av.
Teratogen, Mutagen, Reproductive Toxin Status: N. Av. Toxicologically Synergistic Products: N. Av.					
SECTION XII - ECOLOGICAL INFORMATION					
Ecotoxicological Information: NA					
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 sewerred, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations. RCRA Hazard Class: None					
SECTION XIV - TRANSPORT INFORMATION					
Shipping Classification: Compound, cleaning liquid, N.O.I. UN Number: N. Av. 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 Quality: None					
SARA Title III					
Section 302 Extremely Hazardous Chemicals: None Section 311/312 Hazard Category: None Section 313 Toxic Chemicals: None					
State Regulations					
International Regulations					
WHMIS Controlled Product Hazard Class: N/A					
SECTION XVII - OTHER INFORMATION					
None					
N. Av. - Not Applicable; N. Av. - Not Available					

NFPA SYSTEM

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

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