

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION		
Identity (As Used on Label and List): Multi-Shine Product Class: Glass and surface 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	Propylene glycol monomethyl ether CAS #107-98-2	1 - 5
B	Propylene glycol n-butyl ether CAS #15131-66-8	1 - 5
C	Ammonia hydroxide CAS #1336-21-6	< 1
D	Water CAS #7732-18-5	60 - 100
SECTION III - HAZARDS IDENTIFICATION		
Emergency Overview		
Appearance and Odor: Blue liquid, mild odor.		
Primary Hazards: Combustible, irritant.		
Potential Health Hazards		
Route(s) of Entry:	Skin Absorption: X	Ingestion: X
Eye: May cause irritation on contact.		Inhalation: X
Skin: May cause irritation on prolonged or repeated contact.		
Ingestion: May be harmful if swallowed.		
Inhalation: Overexposure to vapors may be harmful.		
Signs and Symptoms of Exposure: Excessive exposure may cause headaches or narcotic effects.		
Carcinogenicity: NTP? No IARC Monographs? No		
OSHA Regulated? No		
Target Organ (s): Skin, eyes, liver and kidneys.		
Medical Conditions Generally Aggravated by Exposure: N. Av.		
Health Hazards, Chronic: N. Av.		
SECTION IV - FIRST AID MEASURES		
Emergency and First Aid Procedures:		
If Swallowed: Drink two glasses of water and call a physician immediately. 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.		
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): 147°F closed cup		
Flammable Limits: N. Av.	LEL N. Av.	UEL N. Av.
Extinguishing Media		
Water?	Foam?	Water Fog?
Alcohol Foam? X	CO₂? X	Dry Chemical? X
Vaporizing Liquid?	Other?	
Special Fire Fighting Procedures: Water hose stream may spread fire. Use water spray to keep containers cool.		
Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel over distances to ignition sources (heat, flames, sparks, pilot lights, etc) where ignition may occur. Ground all equipment.		
TDG Flammability Classification: Unknown		
Sensitivity to Mechanical Impact: None		
Sensitivity to Static Discharge: N. Av.		
SECTION VI - ACCIDENTAL RELEASE MEASURES		
Steps to be Taken in Case Material is Released or Spilled: Extinguish all sources of possible ignition (flames, sparks, pilot lights, etc.) and provide ventilation. For large spills, dike and contain spill with inert material (sand, earth, etc.). Collect spill with absorbent material (example, floor-dri). For small spills, wipe up spill with mop or rag. Dispose of or treat mop or rag properly to avoid fire.		
SECTION VII - HANDLING AND STORAGE		
Precautions to be Taken in Handling and Storing: Do not store near heat, sparks or flame.		
Other Precautions: Keep out of reach of children. Keep from freezing.		
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION		
Respiratory Protection (Specify Types): Not required. Avoid breathing spray mist.		
Ventilation: Local Exhaust: Not required	Special: Not required	
Mechanical (General): As required to keep vapor level below TLVs and PELs (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: 10.9				
Specific Gravity (H₂O) = 1: 1.005	% Volatile: > 95				
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. Ap.					
SECTION X - STABILITY AND REACTIVITY					
Stability: Unstable: Stable: X					
Conditions to Avoid: N. Ap.					
Incompatibility (materials to avoid): Oxidizing material					
Hazardous Decomposition or By-products: N. Av.					
Hazardous Polymerization: May occur: Will not occur: X					
Conditions to Avoid: N. Ap.					
SECTION XI - TOXICOLOGICAL INFORMATION					
Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	100 ppm	100 ppm	N. Av.	6,600 mg/kg (rat, oral)	> 200 mg/l (rat, 1 hr.)
B	None	None	N. Av.	3,300 mg/kg (rat, oral)	N. Av.
C	25 ppm	25 ppm	N. Av.	N. Av.	N. Av.
D	None	None	N. Av.	N. Av.	N. Av.
Teratogen, Mutagen, Reproductive Toxin Status: No conclusive data available.					
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 sewerred, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.					
RCRA Hazard Class: N. Av.					
SECTION XIV - TRANSPORT INFORMATION					
Shipping Classification: Compound, cleaning liquid, NOI.					
UN Number: N. Ap.					
Packing Group: N. Ap.					
SECTION XV - PREPARATION DATA					
Prepared By: Mike Tarvin					
Telephone Number: 651-481-1900					
Date: 12-09					
SECTION XVI - REGULATORY INFORMATION					
US Federal Regulations					
TSCA Status: All ingredients listed.					
CERCLA Reportable Quality: N. Av.					
SARA Title III					
Section 302 Extremely Hazardous Chemicals: None					
Section 311/312 Hazard Category: Immediate health, chronic health, fire.					
Section 313 Toxic Chemicals: None					
State Regulations					
International Regulations					
WHMIS Controlled Product Hazard Class: B3, D2B					
SECTION XVII - OTHER INFORMATION					
None					
N. Ap. - Not Applicable; N. Av. - Not Available					

NFPA SYSTEM

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

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