

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

<b>SECTION I - CHEMICAL PRODUCT &amp; COMPANY IDENTIFICATION</b>		
<b>Identity (As Used on Label and List):</b> Multi-Shine <b>Product Class:</b> Glass and surface cleaner <b>Emergency Telephone Number:</b> 800-255-3924 <b>Telephone Number for Information:</b> 651-481-1900 <b>Manufacturer's Name and Address:</b> Multi-Clean® 600 Cardigan Road Shoreview, MN 55126		
<b>SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS</b>		
<b>Hazardous Components (Specific Chemical Identity):</b>		
<b>Chemical</b>	<b>Common Name(s)</b>	<b>%</b>
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
<b>SECTION III - HAZARDS IDENTIFICATION</b>		
<b>Emergency Overview</b>		
<b>Appearance and Odor:</b> Blue liquid, mild odor.		
<b>Primary Hazards:</b> Combustible, irritant.		
<b>Potential Health Hazards</b>		
<b>Route(s) of Entry:</b>	<b>Skin Absorption:</b> X	<b>Ingestion:</b> X
<b>Eye:</b> May cause irritation on contact.	<b>Inhalation:</b> X	
<b>Skin:</b> May cause irritation on prolonged or repeated contact.		
<b>Ingestion:</b> May be harmful if swallowed.		
<b>Inhalation:</b> Overexposure to vapors may be harmful.		
<b>Signs and Symptoms of Exposure:</b> Excessive exposure may cause headaches or narcotic effects.		
<b>Carcinogenicity:</b> NTP? No IARC Monographs? No		
<b>OSHA Regulated?</b> No		
<b>Target Organ (s):</b> Skin, eyes, liver and kidneys.		
<b>Medical Conditions Generally Aggravated by Exposure:</b> N. Av.		
<b>Health Hazards, Chronic:</b> N. Av.		
<b>SECTION IV - FIRST AID MEASURES</b>		
<b>Emergency and First Aid Procedures:</b>		
<b>If Swallowed:</b> Drink two glasses of water and call a physician immediately. <b>Eye Contact:</b> Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention. <b>Skin Contact:</b> Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.		
<b>Sources Used:</b> Raw material data, general toxicology from the trade for similar products.		
<b>SECTION V - FIRE FIGHTING MEASURES</b>		
<b>Flammability:</b> Combustible	<b>Autoignition Temperature:</b> N. Av.	
<b>Flash Point (method used):</b> 147°F closed cup		
<b>Flammable Limits:</b> N. Av.	<b>LEL:</b> N. Av.	<b>UEL:</b> N. Av.
<b>Extinguishing Media</b>		
<b>Water?</b>	<b>Foam?</b>	<b>Water Fog?</b>
<b>Alcohol Foam?</b> X	<b>CO<sub>2</sub>?</b> X	<b>Dry Chemical?</b> X
<b>Vaporizing Liquid?</b>	<b>Other?</b>	
<b>Special Fire Fighting Procedures:</b> Water hose stream may spread fire. Use water spray to keep containers cool.		
<b>Unusual Fire and Explosion Hazards:</b> 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.		
<b>TDG Flammability Classification:</b> Unknown		
<b>Sensitivity to Mechanical Impact:</b> None		
<b>Sensitivity to Static Discharge:</b> N. Av.		
<b>SECTION VI - ACCIDENTAL RELEASE MEASURES</b>		
<b>Steps to be Taken in Case Material is Released or Spilled:</b> 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.		
<b>SECTION VII - HANDLING AND STORAGE</b>		
<b>Precautions to be Taken in Handling and Storing:</b> Do not store near heat, sparks or flame.		
<b>Other Precautions:</b> Keep out of reach of children. Keep from freezing.		
<b>SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION</b>		
<b>Respiratory Protection (Specify Types):</b> Not required. Avoid breathing spray mist.		
<b>Ventilation:</b> Local Exhaust: Not required	<b>Special:</b> Not required	
<b>Mechanical (General):</b> As required to keep vapor level below TLVs and PELs (Section XI)		
<b>Other:</b> Not required		
<b>Protective Gloves:</b> Natural rubber or synthetic.		
<b>Eye Protection:</b> Approved safety goggles or glasses. <b>Footwear:</b> Not required		
<b>Other Protective Clothing or Equipment:</b> Not required		

<b>Work/Hygienic Practices:</b> Do not contaminate food or beverages with cleaning chemicals.					
<b>SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS</b>					
<b>Boiling Point:</b> Approximately 212°F (100°C)	<b>pH:</b> 10.9				
<b>Specific Gravity (H<sub>2</sub>O) = 1:</b> 1.005	<b>% Volatile:</b> > 95				
<b>Vapor Density (Air = 1):</b> > 1	<b>Odor Threshold:</b> N. Av.				
<b>Evaporation Rate (Butyl Acetate = 1):</b> N. Av.	<b>Oil/Water Distribution Coefficient:</b> N. Av.				
<b>Solubility in Water:</b> Complete					
<b>Vapor Pressure (MM HG):</b> N. Av.					
<b>Melting Point:</b> N. Ap.					
<b>SECTION X - STABILITY AND REACTIVITY</b>					
<b>Stability:</b> Unstable: Stable: X					
<b>Conditions to Avoid:</b> N. Ap.					
<b>Incompatibility (materials to avoid):</b> Oxidizing material					
<b>Hazardous Decomposition or By-products:</b> N. Av.					
<b>Hazardous Polymerization:</b> May occur: Will not occur: X					
<b>Conditions to Avoid:</b> N. Ap.					
<b>SECTION XI - TOXICOLOGICAL INFORMATION</b>					
<b>Chemical</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>Recom.</b>	<b>LD50</b>	<b>LC50</b>
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.
<b>Teratogen, Mutagen, Reproductive Toxin Status:</b> No conclusive data available.					
<b>Toxicologically Synergistic Products:</b> N. Av.					
<b>SECTION XII - ECOLOGICAL INFORMATION</b>					
<b>Ecotoxicological Information:</b> N. Av.					
<b>Chemical Fate Information:</b> N. Av.					
<b>SECTION XIII - DISPOSAL CONSIDERATIONS</b>					
<b>Waste Disposal Method:</b> 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.					
<b>RCRA Hazard Class:</b> N. Av.					
<b>SECTION XIV - TRANSPORT INFORMATION</b>					
<b>Shipping Classification:</b> Compound, cleaning liquid, NOI.					
<b>UN Number:</b> N. Ap.					
<b>Packing Group:</b> N. Ap.					
<b>SECTION XV - PREPARATION DATA</b>					
<b>Prepared By:</b> Ron Camp					
<b>Telephone Number:</b> 651-481-1900					
<b>Date:</b> 4-12					
<b>SECTION XVI - REGULATORY INFORMATION</b>					
<b>US Federal Regulations</b>					
<b>TSCA Status:</b> All ingredients listed.					
<b>CERCLA Reportable Quality:</b> N. Av.					
<b>SARA Title III</b>					
<b>Section 302 Extremely Hazardous Chemicals:</b> None					
<b>Section 311/312 Hazard Category:</b> Immediate health, chronic health, fire.					
<b>Section 313 Toxic Chemicals:</b> None					
<b>State Regulations</b>					
<b>International Regulations</b>					
<b>WHMIS Controlled Product Hazard Class:</b> B3, D2B					
<b>SECTION XVII - OTHER INFORMATION</b>					
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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