

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION		
Identity (As Used on Label and List): Multi-Clean Mop-On Stripper Product Class: Water-based floor finish stripper 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	2-Butoxy ethanol 10 - 30 CAS #111-76-2	
B	Potassium hydroxide 3 - 7 CAS #1310-58-3	
C	Aldyl-Imino Acid Sodium Salt 1 - 5 CAS #64972-19-6	
D	Ethanolamine 1 - 5 CAS #141-43-5	
E	Water 60 - 100 CAS #7732-18-5	
SECTION III - HAZARDS IDENTIFICATION		
Emergency Overview		
Appearance and Odor: Blue liquid, "butyl" aroma.		
Primary Hazards: Corrosive		
Potential Health Hazards		
Route(s) of Entry:	Skin Absorption: X Ingestion: Inhalation: X	
Eye:	May cause chemical burns on contact.	
Skin:	May cause chemical burns on contact.	
Ingestion:	May be harmful if swallowed.	
Inhalation:	Overexposure to butyl vapors may be harmful.	
Signs and Symptoms of Exposure:	Eye Contact: Possible slippery feeling, redness, tearing, redness and corneal damage. Skin Contact: Possible slippery feeling, redness, swelling and burns. Symptoms may be delayed. Inhalation: Overexposure to 2-Butoxy ethanol (butyl) vapors may cause central nervous system effects including drowsiness, headache, nausea and dizziness.	
Carcinogenicity:	NTP? No IARC Monographs? No	
OSHA Regulated?	No	
Target Organ (s):	Eyes, skin, liver, kidneys, lymphoid system, respiratory system and blood.	
Medical Conditions Generally Aggravated by Exposure:	N. Av.	
Health Hazards, Chronic:	Overexposure to 2-Butoxy ethanol may cause damage to one or more of the target organs listed above.	
SECTION IV - FIRST AID MEASURES		
Emergency and First Aid Procedures:		
For Eye Contact: Immediately flush eyes with water for at least 15 minutes. Obtain immediate medical attention. If Swallowed: Do not induce vomiting. If person can swallow, give several glasses of water. Obtain medical attention immediately. For Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. For Overexposure to Vapors: Remove victim to fresh air, keep warm, quiet and contact a physician.		
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 where ventilation is sufficient to maintain 2-Butoxy ethanol vapor level below listed TLV. Use NIOSH/MSHA approved organic vapor respirator in areas where vapor level exceeds TLV.					
Ventilation:	Local Exhaust: Not required Special: Not required				
Mechanical (General):	As required 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 shield. Footwear: Rubber footwear.				
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 pH: 13 - 14				
Specific Gravity (H ₂ O) = 1:	1.035 % Volatile: 75 - 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. 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	25 ppm (skin)	25 ppm (skin)	25 ppm (skin)	1.48 g/kg (rat, oral)	N. Av.
B	C2 mg/M ₃	C2 mg/M ₃	N. Av.	205 mg/kg (rat, oral)	N. Av.
C	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
D	3 ppm	3 ppm	N. Av.	N. Av.	N. Av.
E	None	None	N. Av.	N. Av.	N. Av.
Teratogen, Mutagen, Reproductive Toxin Status: No data with known relevance to humans.					
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: D002, characteristic corrosive.					
SECTION XIV - TRANSPORT INFORMATION					
Shipping Classification: Corrosive liquid, basic inorganic, N.O.S. (Containing potassium hydroxide), class 8					
UN Number: 3266					
Packing Group: II					
SECTION XV - PREPARATION DATA					
Prepared By: Mike Elms					
Telephone Number: 651-481-1900					
Date: 9/10					
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					
Section 313 Toxic Chemicals: Glycol ether					
State Regulations					
NOTICE STATE OF CALIFORNIA					
Warning: This product may contain chemicals known to the State of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacture of this product.					
International Regulations					
WHMIS Controlled Product Hazard Class: E					
SECTION XVII - OTHER INFORMATION					
None					
N. Av. - Not Applicable; N. Av. - Not Available					

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NFPA SYSTEM

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