

# 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> Bio-Bath Foaming Restroom Cleaner <b>Product Class:</b> Foaming Acid Cleaner based on renewable resources <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	Citric Acid CAS #77-92-9	5-8%
B	Water CAS #7732-18-5	40 - 100%
C	Alkyl Polyglucoside CAS #Blend	2 - 5%
<b>SECTION III - HAZARDS IDENTIFICATION</b>		
<b>Emergency Overview</b>		
<b>Appearance and Odor:</b> Clear liquid with a paradise fragrance <b>Primary Hazards:</b> Corrosive		
<b>Potential Health Hazards</b>		
<b>Route(s) of Entry:</b>	<b>Skin Absorption:</b> X	<b>Ingestion:</b> X <b>Inhalation:</b> X
<b>Eye:</b> May cause burns on contact. <b>Skin:</b> May cause burns on contact. <b>Ingestion:</b> Harmful if swallowed. <b>Inhalation:</b> Mist produces irritation to eyes, nose, throat and skin. <b>Signs and Symptoms of Exposure:</b> Irritation on direct contact. <b>Carcinogenicity:</b> NTP? No <b>IARC Monographs?</b> No <b>OSHA Regulated?</b> No <b>Target Organ (s):</b> No additional data. <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> Do not induce vomiting. Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person. <b>Eye Contact:</b> Flush eyes with running water for at least 15 minutes. Obtain medical attention. <b>Skin Contact:</b> Flush thoroughly with cool water. If irritation persists, obtain medical attention. 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> No	<b>Autoignition Temperature:</b> N. Av.	
<b>Flash Point (method used):</b> None		
<b>Flammable Limits:</b> N. Av.	LEL	UEL
<b>Extinguishing Media:</b> N. Av.		
<b>Water?</b>	<b>Foam?</b>	<b>Water Fog?</b>
<b>Alcohol Foam?</b>	<b>CO<sub>2</sub>?</b>	<b>Dry Chemical?</b>
<b>Vaporizing Liquid?</b>	<b>Other?</b>	
<b>Special Fire Fighting Procedures:</b> N. Av. <b>Unusual Fire and Explosion Hazards:</b> N. Av. <b>TDG Flammability Classification:</b> Non-flammable <b>Sensitivity to Mechanical Impact:</b> None <b>Sensitivity to Static Discharge:</b> None		
<b>SECTION VI - ACCIDENTAL RELEASE MEASURES</b>		
<b>Steps to be Taken in Case Material is Released or Spilled:</b> 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.		
<b>SECTION VII - HANDLING AND STORAGE</b>		
<b>Precautions to be Taken in Handling and Storing:</b> Normal care in handling and storage. <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		
<b>Ventilation: Local Exhaust:</b> Not required	<b>Special:</b> Not required	
<b>Mechanical (General):</b> Normal good ventilation sufficient.		
<b>Other:</b> Not required		
<b>Protective Gloves:</b> Chemical resistant rubber. <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 195°F		<b>pH:</b> <1.5			
<b>Specific Gravity (H<sub>2</sub>O) = 1:</b>		<b>% Volatile:</b> > 80			
<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</b>			
<b>Solubility in Water:</b> Complete		<b>Coefficient:</b> N. Av.			
<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> Do not mix with any other chemicals, especially alkaline, bleach or ammonia cleaners. Avoid contact with alkaline materials & reactive metals.					
<b>Incompatibility (materials to avoid):</b> Mild steel and aluminum may react to produce hydrogen gas that can produce an explosive in confined vessels. Reacts violently with strong bases. Do not use on marble, terrazzo or natural stone.					
<b>Hazardous Decomposition or By-products:</b>					
<b>Hazardous Polymerization:</b> May occur:		<b>Will not occur:</b> 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	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	N. Ap.	N. Av.	N. Av.
B	None	None	None	N. Av.	N. Av.
C	N. Ap.	N. Ap.	N. Av.	N. Av.	N. Av.
<b>Teratogen, Mutagen, Reproductive Toxin Status:</b> No					
<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> Neutralize and 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> D002, Characteristic corrosive					
<b>SECTION XIV - TRANSPORT INFORMATION</b>					
<b>Shipping Classification:</b> Compound, cleaning liquid, N.O.I.					
<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> None					
<b>SARA Title III</b>					
<b>Section 302 Extremely Hazardous Chemicals:</b> None					
<b>Section 311/312 Hazard Category:</b> None					
<b>Section 313 Toxic Chemicals:</b> None					
<b>State Regulations</b>					
<b>International Regulations</b>					
<b>WHMIS Controlled Product Hazard Class:</b> E					
<b>SECTION XVII - OTHER INFORMATION</b>					
None					
N. Ap. - Not Applicable;    N. Av. - Not Available					

## NFPA SYSTEM

2 A. Health Hazard    0 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.