

# 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-Clean Red Lightning <b>Product Class:</b> General purpose water-based 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®, A Division of Minuteman International, Inc. 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> %
A	Sodium Carbonate CAS #497-19-8 1 - 4
B	Alcohol Ethoxylate CAS #34398-01-1 3 - 8
C	Sodium Xylene Sulfonate CAS #1300-72-7 1 - 5
D	Water CAS #7732-18-5 60 - 100
<b>SECTION III - HAZARDS IDENTIFICATION</b>	
<b>Emergency Overview</b>	
<b>Appearance and Odor:</b> Red liquid, citrus aroma. <b>Primary Hazards:</b> Irritant	
<b>Potential Health Hazards</b>	
<b>Route(s) of Entry:</b> Skin Absorption: Ingestion: X Inhalation:	
<b>Eye:</b> May cause irritation on contact.	
<b>Skin:</b> May cause irritation on prolonged or repeated contact.	
<b>Ingestion:</b> May be harmful if swallowed.	
<b>Inhalation:</b> No hazardous vapors.	
<b>Signs and Symptoms of Exposure:</b> Irritation on direct contact.	
<b>Carcinogenicity:</b> NTP? No IARC Monographs? 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. 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> 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>Alcohol Foam?</b>	<b>CO<sub>2</sub>?</b>
<b>Vaporizing Liquid?</b>	<b>Other?</b>
<b>Water Fog?</b>	
<b>Dry Chemical?</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:</b> Local Exhaust: Not required	<b>Special:</b> Not required
<b>Mechanical (General):</b> Normal good ventilation sufficient.	
<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	<b>pH:</b> 11.5				
<b>Specific Gravity (H2O) = 1:</b> 1.057	<b>% Volatile:</b> 87.5				
<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. Av.					
<b>SECTION X - STABILITY AND REACTIVITY</b>					
<b>Stability:</b> Unstable: Stable: X					
<b>Conditions to Avoid:</b> N. Av.					
<b>Incompatibility (materials to avoid):</b> N. Av.					
<b>Hazardous Decomposition or By-products:</b> N. Av.					
<b>Hazardous Polymerization:</b> May occur:				<b>Will not occur:</b> X	
<b>Conditions to Avoid:</b> N. Av.					
<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	None	None	N. Av. (rat, oral)	4,000 mg/kg	N. Av.
B	None	None	N. Av.	0.7 - 1.7 gm/kg (rat, oral)	N. Av.
C	N. Av.	N. Av.	N. Av.	4,000 mg/kg (rat, oral)	N. Av.
D	N. Av.	N. Av.	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> 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> None					
<b>SECTION XIV - TRANSPORT INFORMATION</b>					
<b>Shipping Classification:</b> Compound, cleaning liquid, N.O.I.					
<b>UN Number:</b> N. Av.					
<b>Packing Group:</b> N. Av.					
<b>SECTION XV - PREPARATION DATA</b>					
<b>Prepared By:</b> Mike Tarvin					
<b>Telephone Number:</b> 651-481-1900					
<b>Date:</b> 4/08					
<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> Immediate health hazard					
<b>Section 313 Toxic Chemicals:</b> None					
<b>State Regulations</b>					
<b>International Regulations</b>					
<b>WHMIS Controlled Product Hazard Class:</b> D2B					
<b>SECTION XVII - OTHER INFORMATION</b>					
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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