

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION		
Identity (As Used on Label and List): 12 HD Hi-Foam (Super Concentrate) Product Class: General purpose water-based 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	Sodium Metasilicate Pentahydrate CAS #6834-92-0	1 - 5
B	Potassium Hydroxide CAS #1310-58-3	1 - 5
C	Lauramide Oxide CAS #1643-20-5	3 - 7
D	Water CAS #7732-18-5	60 - 100
SECTION III - HAZARDS IDENTIFICATION		
Emergency Overview		
Appearance and Odor: Clear liquid, mild odor. Primary Hazards: Corrosive		
Potential Health Hazards		
Route(s) of Entry:	Skin Absorption: X	Ingestion: X Inhalation: X
Eye: May cause chemical burns on contact. Skin: May cause chemical burns on contact. Ingestion: May be harmful if swallowed. Inhalation: No hazardous vapors. Signs and Symptoms of Exposure: Eye Contact: Possible burning, tearing, redness and corneal damage. Skin Contact: Possible slippery feeling, redness, swelling and burns. Symptoms may be delayed. Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No Target Organ (s): Eyes, skin. See health hazards, chronic. Medical Conditions Generally Aggravated by Exposure: N. Av. Health Hazards, Chronic: Overexposure to chemical D, Section II or its components has apparently been found to cause the following effects in laboratory animals; liver abnormalities and kidney damage.		
SECTION IV - FIRST AID MEASURES		
Emergency and First Aid Procedures: If Swallowed: Do not induce vomiting. Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person. 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: 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?	CO₂?	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): Dust/mist respirator is recommended when spraying product. Ventilation: Local Exhaust: Not required Special: Not required Mechanical (General): Normal good ventilation sufficient. 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	pH: > 13				
Specific Gravity (H₂O) = 1: 1.04	% Volatile: 60 - 100				
Vapor Density (Air = 1): N. Av.	Odor Threshold: N. Av.				
Evaporation Rate (Butyl Acetate = 1): N. Av.	Oil/Water Distribution Coefficient: N. Av.				
Solubility in Water: Complete					
Vapor Pressure (MM HG): N. Av.					
Melting Point: N. Ap.					
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. Ap.					
SECTION XI - TOXICOLOGICAL INFORMATION					
Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	N. Av.	N. Av.	2 mg/M ₃	800 mg/kg	N. Av.
B	2 mg/M ₃	2 mg/M ₃	N. Av.	365 mg/kg (rat, oral)	N. Av.
C	N. Av.	N. Av.	N. Av.	1-5 gm/kg (rat, oral)	N. Av.
D	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
Teratogen, Mutagen, Reproductive Toxin Status: No 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 sewer, 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. (Contains Potassium Hydroxide), Class 8 UN Number: 3266 Packing Group: II					
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 hazard Section 313 Toxic Chemicals: None					
State Regulations					
International Regulations					
WHMIS Controlled Product Hazard Class: E					
SECTION XVII - OTHER INFORMATION					
None					
N. Ap. - Not Applicable; N. Av. - Not Available					

NFPA SYSTEM

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

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