

# 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> HD Hi-Foam <b>Product Class:</b> General purpose water-based degreaser. <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	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	Tetra-Sodium Salt EDTA CAS #	1 - 5
E	Water CAS #7732-18-5	60 - 100
<b>SECTION III - HAZARDS IDENTIFICATION</b>		
<b>Emergency Overview</b>		
<b>Appearance and Odor:</b> Clear liquid, mild odor. <b>Primary Hazards:</b> Corrosive		
<b>Potential Health Hazards</b>		
<b>Route(s) of Entry:</b> Skin Absorption: X Ingestion: X Inhalation: X <b>Eye:</b> May cause chemical burns on contact. <b>Skin:</b> May cause chemical burns on contact. <b>Ingestion:</b> May be harmful if swallowed. <b>Inhalation:</b> No hazardous vapors. <b>Signs and Symptoms of Exposure:</b> Eye Contact: Possible burning, tearing, redness and corneal damage. Skin Contact: Possible slippery feeling, redness, swelling and burns. Symptoms may be delayed. <b>Carcinogenicity:</b> NTP? No IARC Monographs? No OSHA Regulated? No <b>Target Organ (s):</b> Eyes, skin. See health hazards, chronic. <b>Medical Conditions Generally Aggravated by Exposure:</b> N. Av. <b>Health Hazards, Chronic:</b> None Known.		
<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. Water? Foam? Water Fog? Alcohol Foam? CO <sub>2</sub> ? Dry Chemical? Vaporizing Liquid? Other? <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> Dust/mist respirator is recommended when spraying product. <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> 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> > 13			
<b>Specific Gravity (H2O) = 1:</b> 1.04		<b>% Volatile:</b> 60 - 100			
<b>Vapor Density (Air = 1):</b> N. Av.		<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	N. Av.	N. Av.	2 mg/M <sub>3</sub>	800 mg/kg	N. Av.
B	2 mg/M <sub>3</sub>	2 mg/M <sub>3</sub>	N. Av.	365 mg/kg	N. Av.
C	N. Av.	N. Av.	N. Av.	(rat, oral) 1-5 gm/kg	N. Av.
D	N. Av.	N. Av.	N. Av.	(rat, oral) N. Av.	N. Av.
E	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 sewer, 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> Corrosive liquid, basic inorganic, N.O.S. (Contains Potassium Hydroxide), Class 8 <b>UN Number:</b> 3266 <b>Packing Group:</b> II					
<b>SECTION XV - PREPARATION DATA</b>					
<b>Prepared By:</b> Mike Elms <b>Telephone Number:</b> 651-481-1900 <b>Date:</b> 12-09					
<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 hazard <b>Section 313 Toxic Chemicals:</b> None <b>State Regulations</b>					
<b>International Regulations</b> WHMIS Controlled Product Hazard Class: E					
<b>SECTION XVII - OTHER INFORMATION</b>					
None					
N. Av. - Not Applicable; N. Av. - Not Available					

## NFPA SYSTEM

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

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