

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION		
Identity (As Used on Label and List): Freezer Cleaner		
Product Class: Specialty 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	Methanol CAS #67-56-1	30 - 50
B	Alcohol Ethoxylate CAS #34398-01-1	1 - 5
C	Water CAS #7732-18-5	60 - 100
SECTION III - HAZARDS IDENTIFICATION		
Emergency Overview		
Appearance and Odor: Red liquid, Fresh fragrance.		
Primary Hazards: Poison, irritant, fire.		
Potential Health Hazards		
Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X		
Eye: May cause irritation on contact.		
Skin: May cause irritation on contact. Methanol may be harmful if absorbed through skin.		
Ingestion: May be fatal or cause blindness if swallowed.		
Inhalation: Overexposure to methanol vapors may be harmful.		
Signs and Symptoms of Exposure: Irritation on eye or skin contact. Possible central nervous system depression if swallowed, overexposed to vapors or if absorbed from extended skin contact with liquid.		
Carcinogenicity: NTP? No IARC Monographs? No		
OSHA Regulated? No		
Target Organ (s): Eyes, skin, liver, kidneys, central nervous system.		
Medical Conditions Generally Aggravated by Exposure: Skin, liver and eye disorder.		
Health Hazards, Chronic: Eye damage.		
SECTION IV - FIRST AID MEASURES		
Emergency and First Aid Procedures:		
If Swallowed: Give 1 or 2 glasses of water. Call a physician, hospital emergency room or poison control center immediately for instructions to induce vomiting. When medical advise is not available, induce vomiting using Syrup of Ipecac. If Ipecac is unavailable, induce vomiting with finger or back of spoon. Get immediate medical attention.		
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: Flammable Autoignition Temperature: N. Av.		
Flash Point (method used): 60°F (15°C) PMCC		
Flammable Limits: N. Av. LEL UEL		
Extinguishing Media		
Water?	Foam?	Water Fog? X
Alcohol Foam? X	CO₂? X	Dry Chemical? X
Vaporizing Liquid? X	Other?	
Special Fire Fighting Procedures: Water hose stream may spread fire. Use water spray to keep containers cool.		
Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel over distance to ignition sources.		
TDG Flammability Classification: 3.2		
Sensitivity to Mechanical Impact: None		
Sensitivity to Static Discharge: Product above its flashpoint it may emit vapors ignitable by sparks.		
SECTION VI - ACCIDENTAL RELEASE MEASURES		
Steps to be Taken in Case Material is Released or Spilled:		
Extinguish all sources of possible ignition (flames, sparks, pilot lights, etc.) and provide ventilation. Dike and contain spill with inert material (sand, earth, etc.). Collect spill with mop or absorbent material (example: floor-dri). Thoroughly rinse affected area with water.		
SECTION VII - HANDLING AND STORAGE		
Precautions to be Taken in Handling and Storing:		
Do not store in areas with electrical sparks or heat.		
Other Precautions: Keep out of reach of children. Keep from freezing.		
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION		
Respiratory Protection (Specify Types): An NIOSH/MSHA approved organic vapor respirator should be used in areas where ventilation is insufficient to maintain vapor level below listed TLV.		
Ventilation: Local Exhaust: Not required Special: Not required		
Mechanical (General): Ventilate to maintain vapor level below TLV.		

Other: Not required					
Protective Gloves: Chemical resistant rubber.					
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: N. Av.	pH: 11.6				
Specific Gravity (H₂O) = 1: .949	% Volatile: > 90				
Vapor Density (Air = 1): > 1	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. Ap.					
Incompatibility (materials to avoid): Strong oxidizing agents (example: bleach).					
Hazardous Decomposition or By-products: CO ₂ , CO					
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	200 ppm (skin)	200 ppm (skin)	N. Av.	6,250 mg/kg (rat, oral)	64,000 ppm (rat, 4 hr.)
B	N. Ap.	N. Ap.	N. Ap.	0.7 - 1.7 gm/kg (rat, oral)	N. Av.
C	None	None	N. Av.	N. Av.	N. Av.
Teratogen, Mutagen, Reproductive Toxin Status: N. Av.					
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: D001, characteristic flammable					
SECTION XIV - TRANSPORT INFORMATION					
Shipping Classification: Flammable liquid, N.O.S. (Containing methanol), class 3					
UN Number: 1993					
Packing Group: II					
SECTION XV - PREPARATION DATA					
Prepared By: Ron Camp					
Telephone Number: 651-481-1900					
Date: 4-12					
SECTION XVI - REGULATORY INFORMATION					
US Federal Regulations					
TSCA Status: All ingredients listed.					
CERCLA Reportable Quality: > 5,000 lbs.					
SARA Title III					
Section 302 Extremely Hazardous Chemicals: None					
Section 311/312 Hazard Category: Immediate health, chronic health, fire.					
Section 313 Toxic Chemicals: Methanol					
State Regulations					
International Regulations					
WHMIS Controlled Product Hazard Class: B2, DIA, D2B					
SECTION XVII - OTHER INFORMATION					
None					
N. Ap. - Not Applicable; N.Av. - Not Available					

NFPA SYSTEM

2 A. Health Hazard 3 A. Fire Hazard 0 A. Reactivity Hazard

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