

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION		
Identity (As Used on Label and List): Constant Shield HD-3000, Part B		
Product Class: Water-borne floor seal catalyst		
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	Bisphenol A-epoxy resin CAS #25068-38-6	60 - 100
B	Glycidyl ether CAS #120547-52-6	10 - 30
C	Epichlorohydrin CAS #106-89-8	< .1
D	Diglycidyl ether CAS #2238-07-5	< .1
E	Phenyl glycidyl ether CAS #122-60-1	< .15
SECTION III - HAZARDS IDENTIFICATION		
Emergency Overview		
Appearance and Odor: White liquid, slight odor.		
Primary Hazards: Irritant		
Potential Health Hazards		
Route(s) of Entry: Skin	Absorption: X	Ingestion:
Eye: May cause irritation on contact.		
Skin: May cause irritation on prolonged or repeated contact. May cause skin sensitization in some individuals.		
Ingestion: May be harmful if swallowed.		
Inhalation: No effects expected.		
Signs and Symptoms of Exposure: Skin sensitization may be evidenced by rashes, especially hives.		
Carcinogenicity: NTP? No	IARC Monographs? No	
OSHA Regulated? No		
Target Organ (s): No additional data		
Medical Conditions Generally Aggravated by Exposure: Pre-existing eye, skin and respiratory disorders may be aggravated.		
Health Hazards, Chronic: See Section XI		
SECTION IV - FIRST AID MEASURES		
Emergency and First Aid Procedures:		
If Swallowed: Call a physician, hospital emergency room or poison control center immediately. Eye Contact: Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention. Skin Contact: Wash affected area with soap and water. If irritation persists, obtain medical attention. 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. Ap.	
Flash Point (method used): > 200°F (93°C) Seta flash		
Flammable Limits: N. Ap.	LEL	UEL
Extinguishing Media N. Ap.		
Water?	Foam?	Water Fog? X
Alcohol Foam? X	CO₂? X	Dry Chemical? X
Vaporizing Liquid?	Other?	
Special Fire Fighting Procedures: N. Ap.		
Unusual Fire and Explosion Hazards: N. Av.		
TDG Flammability Classification: Combustible liquid		
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:		
Storage Temperature: Minimum 40°F (4°C); Maximum 100°F (38°C)		
Other Precautions: Keep out of reach of children. Keep from freezing.		
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION		
Respiratory Protection (Specify Types): Not required		
Ventilation: Local Exhaust: Not required	Special: Not required	
Mechanical (General): Normal good ventilation sufficient.		
Other: Not required		
Protective Gloves: Natural rubber or synthetic.		
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: N. Ap.				
Specific Gravity (H₂O) = 1: 1.1	% Volatile: N. Av.				
Vapor Density (Air = 1): > 1	Odor Threshold: N. Av.				
Evaporation Rate (Butyl Acetate = 1): N. Av.	Oil/Water Distribution				
Solubility in Water: Dispensable	Coefficient: N. Av.				
Vapor Pressure (MM HG): 17.5					
Melting Point: N. Ap.					
SECTION X - STABILITY AND REACTIVITY					
Stability: Unstable: Stable: X					
Conditions to Avoid: Avoid heat, flame and contact with strong oxidizing agents.					
Incompatibility (materials to avoid): Strong oxidizing agents.					
Hazardous Decomposition or By-products: Carbon monoxide, aldehydes and acids may be formed.					
Hazardous Polymerization:	May occur:	Will not occur: X			
Conditions to Avoid: None known					
SECTION XI - TOXICOLOGICAL INFORMATION					
Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	N. Av.	N. Av.	N. Av.	11.4 g/kg (oral, rat)	N. Av.
B	None	None	N. Av.	10 g/kg (rat, oral)	N. Av.
C	2.0 ppm	2.0 ppm	N. Av.	N. Av.	N. Av.
D	.1 ppm	.1 ppm	N. Av.	N. Av.	N. Av.
E	1.0 ppm	1.0 ppm	N. Av.	N. Av.	N. Av.
Teratogen, Mutagen, Reproductive Toxin Status: Epoxy resins containing the diglycidyl ether of bisphenol A, such as this one, have demonstrated mutagenic activity in in-vitro microbial and cultured rat liver cell tests. The significance of this information to man is unknown.					
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: Sewer or incinerate in accordance with existing pollution control ordinances.					
RCRA Hazard Class: None					
SECTION XIV - TRANSPORT INFORMATION					
Shipping Classification: Shipped with HD-3000 Part A as Paint, lacquer or varnish, N.O.I.					
UN Number: N. Ap.					
Packing Group: N. Ap.					
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 Quantity: N. Ap.					
SARA Title III					
Section 302 Extremely Hazardous Chemicals: Epichlorohydrin (< 3 ppm) Diglycidyl ether (< 3 ppm)					
Section 311/312 Hazard Category: Immediate health, chronic health					
Section 313 Toxic Chemicals: Epichlorohydrin (< 3 ppm), Diglycidyl ether (< 3 ppm)					
International Regulations					
WHMIS Controlled Product Hazard Class: D2B					
SECTION XVII - OTHER INFORMATION					
None					
N. Ap. - Not Applicable; N.Av. - Not Available					

NFPA SYSTEM

2 A. Health Hazard 1 A. Fire Hazard 0 A. Reactivity Hazard

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