

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION			
Identity (As Used on Label and List): Dual Kleen Plus Product Class: Sanitizer, DIN: 02258234 Emergency Telephone Number: 800-813-9621 Telephone Number for Information: 519-759-2443 Manufactured For: Diamond Prod ucts 61 Shaver St. PO BOX 1507, Brantford, ON N3T 5V6			
SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS			
Hazardous Components (Specific Chemical Identity):			
Chemical	Common Name(s)	%	Nature of Hazard
A	Alkyl dimethyl benzyl ammonium chloride CAS #68391-01-5	5	Xn-Harmful R20, R21, R22
B	Alkyl dimethyl ethylbenzyl ammonium chloride CAS #68956-79-6	5	Xn-Harmful R20, R21, R22
C	Water CAS #7732-18-5	60 - 100	
SECTION III - HAZARDS IDENTIFICATION			
Emergency Overview			
Hazard Designation: Xn - Harmful Risk Phrase: R21/R22: Harmful in contact with skin and if swallowed. Primary Hazards: Corrosive			
Potential Health Hazards			
Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X Eye: Corrosive. Severe eye damage can result from direct contact. Skin: May cause severe irritation Ingestion: May be harmful if swallowed. Inhalation: Irritation of mucous membrane can be caused by solvent vapors or mists of product. Signs and Symptoms of Exposure: Irritation and/or burning sensation on contact. Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No Target Organ (s): No additional data Medical Conditions Generally Aggravated by Exposure: N. Av. Health Hazards, Chronic: N. Av.			
SECTION IV - FIRST AID MEASURES			
FIRST AID INSTRUCTIONS: If splashed in eyes or on skin flush thoroughly with water for 15 minutes. For eye contact, get medical attention IMMEDIATELY. If on clothes, remove clothes immediately. If breathed in, move person to fresh air. If swallowed, drink two or three glasses of milk or water. Do not induce vomiting, call a physician or the Poison Control Center IMMEDIATELY. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Sources Used: Raw material data, general toxicology from the trade for similar products, EPA approved label.			
SECTION V - FIRE FIGHTING MEASURES			
Flammability: No	Autoignition Temperature: N. Ap.		
Flash Point (method used): None			
Flammable Limits: N. Ap.	LEL	UEL	
Extinguishing Media N. Ap.			
Water?	Foam?	Water Fog?	
Alcohol Foam?	CO₂?	Dry Chemical?	
Vaporizing Liquid?	Other?		
Special Fire Fighting Procedures: N. Ap. 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: Do not contaminate food or water by storage or disposal. Store only in original containers. See label instructions for container disposal. Do not reuse empty container. Other Precautions: Keep out of reach of children. Do not breathe spray mist.			
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION			
Respiratory Protection (Specify Types): Dust/mist respirator should be worn when spraying sanitizing solutions. 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 breath spray mist. Do not contaminate food or beverages with cleaning chemicals.			

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS					
Appearance and Odor: Clear Liquid, Mild Odor Boiling Point: Approximately 212°F Specific Gravity (H₂O) = 1: 0.98 Vapor Density (Air = 1): N. Av. Evaporation Rate (Butyl Acetate = 1): 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): Do not mix with other cleaners or deodorants. 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.	N. Av.	290 mg/kg (rat, oral)	N. Av.
B	N. Av.	N. Av.	N. Av.	> 2,000 mg/kg (rat, oral)	N. Av.
C	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
Acute Oral Toxicity: Oral LD50 650 mg/kg (50% active soln of A & B) 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: Commercial class products packaged in volumes greater than or equal to 20 liters: 1. Rinse the emptied container thoroughly and add the rinsings to the treatment site. 2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. 3. Make the empty container unsuitable for further use. 4. Dispose of the container in accordance with provincial requirements. 5. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the Provincial Regulatory Agency or the Manufacturer. Domestic product and Commercial class product in volumes less than 20 liters: For information on the disposal of unused, unwanted product and the cleanup of spills, contact your municipality or the Provincial Regulatory Agency. RCRA Hazard Class: Regulated by FIFRA					
SECTION XIV - TRANSPORT INFORMATION					
Shipping Classification:					
UN Number:					
Packing Group:					
SECTION XV - PREPARATION DATA					
Prepared By: A White Telephone Number: 519-759-2443 Date: Jan 21, 2015					
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 Canada: All ingredients are listed on the Canadian DSL Product Classified as: Xn - Harmful Risk Phrases: R21/R22: Harmful in contact with skin and if swallowed. Safety Phrases: S2: Keep out of reach of children. S24/S25: Avoid contact with skin and eyes.					
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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