

# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

|  |   |          |
|--|---|----------|
| <b>SECTION I - CHEMICAL PRODUCT &amp; COMPANY IDENTIFICATION</b>   |   |          |
| Identity (As Used on Label and List): Dual Kleen (PC-119)  |   |          |
| Product Class: Cleaner/Sanitizer, EPA #10324-63-70732  |   |          |
| Emergency Telephone Number: 800-535-5053 (INFOTRAC)  |   |          |
| Phone Number for Information: 763-509-7937   |   |          |
| Manufactured for:<br>Ver-tech Labs<br>6801 Bleck Drive<br>Rockford, MN 55373   |   |          |
| <b>SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS</b>   |   |          |
| Hazardous Components (Specific Chemical Identity):   |   |          |
| Chemical   | Common Name(s)  | %        |
| A  | Alkyl dimethyl benzyl ammonium chloride<br>CAS #68391-01-5      | 5        |
| B  | Alkyl dimethyl ethylbenzyl ammonium chloride<br>CAS #88956-79-6 | 5        |
| C  | Water<br>CAS #7732-18-5   | 60 - 100 |
| <b>SECTION III - HAZARDS IDENTIFICATION</b>  |   |          |
| Emergency Overview   |   |          |
| Appearance and Odor: Clear liquid, mild aroma.   |   |          |
| Primary Hazards: Corrosive   |   |          |
| Potential Health Hazards   |   |          |
| Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation:   |   |          |
| Eye: May cause burns if contact occurs.  |   |          |
| Skin: May cause burns if contact occurs.   |   |          |
| Ingestion: May be harmful if swallowed.  |   |          |
| Inhalation: No unusual vapor hazards.  |   |          |
| 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.  |   |          |
| <b>SECTION IV - FIRST AID MEASURES</b>   |   |          |
| Emergency and First Aid Procedures:  |   |          |
| If Swallowed: Do not induce vomiting. Drink water in large amounts and call a physician immediately. Avoid alcohol. 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. NOTE TO PHYSICIAN: Probable mucousal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed. |   |          |
| Sources Used: Raw material data, general toxicology from the trade for similar products, EPA approved label.   |   |          |
| <b>SECTION V - FIRE FIGHTING MEASURES</b>  |   |          |
| 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? CO <sub>2</sub> ? 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  |   |          |
| <b>SECTION VI - ACCIDENTAL RELEASE MEASURES</b>  |   |          |
| 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.   |   |          |
| <b>SECTION VII - HANDLING AND STORAGE</b>  |   |          |
| 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.   |   |          |
| <b>SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION</b>  |   |          |
| 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.   |   |          |

|   |          |                        |        |                              |        |
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| <b>SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS</b>   |          |                        |        |                              |        |
| Boiling Point: Approximately 212°F  |          | pH: 6-8                |        |                              |        |
| Specific Gravity (H <sub>2</sub> O) = 1: .98  |          | % Volatile: 90         |        |                              |        |
| Vapor Density (Air = 1): N. Av.   |          | Odor Threshold: N. Av. |        |                              |        |
| Evaporation Rate (Butyl Acetate = 1): N. Av.  |          | Oil/Water Distribution |        |                              |        |
| Solubility in Water: Complete   |          | Coefficient: N. Av.    |        |                              |        |
| Vapor Pressure (MM HG): N. Av.  |          |                        |        |                              |        |
| Melting Point: N. Ap.   |          |                        |        |                              |        |
| <b>SECTION X - STABILITY AND REACTIVITY</b>   |          |                        |        |                              |        |
| 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.   |          |                        |        |                              |        |
| <b>SECTION XI - TOXICOLOGICAL INFORMATION</b>   |          |                        |        |                              |        |
| Chemical  | OSHA PEL | ACGIH TLV              | Recom. | LD50                         | LC50   |
| A   | N. Av.   | N. Av.                 | N. Av. | 290 mg/kg<br>(rat, oral)     | N. Av. |
| B   | N. Av.   | N. Av.                 | N. Av. | > 2,000 mg/kg<br>(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.  |          |                        |        |                              |        |
| <b>SECTION XII - ECOLOGICAL INFORMATION</b>   |          |                        |        |                              |        |
| Ecotoxicological Information: N. Av.  |          |                        |        |                              |        |
| Chemical Fate Information: N. Av.   |          |                        |        |                              |        |
| <b>SECTION XIII - DISPOSAL CONSIDERATIONS</b>   |          |                        |        |                              |        |
| Waste Disposal Method:  |          |                        |        |                              |        |
| Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance. |          |                        |        |                              |        |
| RCRA Hazard Class: Regulated by FIFRA   |          |                        |        |                              |        |
| <b>SECTION XIV - TRANSPORT INFORMATION</b>  |          |                        |        |                              |        |
| Shipping Classification: Compound, cleaning liquid, NOI   |          |                        |        |                              |        |
| UN Number: NA   |          |                        |        |                              |        |
| Packing Group: NA   |          |                        |        |                              |        |
| <b>SECTION XV - PREPARATION DATA</b>  |          |                        |        |                              |        |
| Prepared By: Mike Elms  |          |                        |        |                              |        |
| Telephone Number: 651-481-1900  |          |                        |        |                              |        |
| Date: 2/03  |          |                        |        |                              |        |
| <b>SECTION XVI - REGULATORY INFORMATION</b>   |          |                        |        |                              |        |
| 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   |          |                        |        |                              |        |
| CALIFORNIA PROPOSITION 65 - Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows (typical maximum concentrations ≤ 5 ppm): Acetaldehyde, Benzene, Benzyl chloride, 1,4-Dioxane, Ethylene oxide, N-Nitrosodimethylamine, Toluene.  |          |                        |        |                              |        |
| MASSACHUSETTES SUBSTANCE LIST (typical maximum concentrations < 5 ppm): Benzene, Benzyl chloride.   |          |                        |        |                              |        |
| MICHIGAN CRITICAL MATERIALS LIST: None known  |          |                        |        |                              |        |
| NEW JERSEY HAZARDOUS SUBSTANCE LIST: N, N-Dialkyl (C8-10) - N, N-dimethylammonium chloride.   |          |                        |        |                              |        |
| PENNSYLVANIA HAZARDOUS SUBSTANCE LIST: None known   |          |                        |        |                              |        |
| International Regulations   |          |                        |        |                              |        |
| WHMIS Controlled Product Hazard Class: E  |          |                        |        |                              |        |
| <b>SECTION XVII - OTHER INFORMATION</b>   |          |                        |        |                              |        |
| 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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