



MATERIAL SAFETY DATA SHEET (MSDS)

Vanguard

General Purpose Germicidal Cleaner

Germicides



SECTION I ▶ PRODUCT IDENTIFICATION					
Product Name		Product Type		WHMIS Classification	
Vanguard		General Purpose Germicidal Cleaner		Exempt	
SECTION II ▶ HAZARDOUS INGREDIENTS					
Chemical Name		Cas Registry No.	%	Toxicity	
Alkyl Dimethyl Benzyl Ammonium Chloride		68424-85-1	1-5	LD ₅₀ ORAL (RAT) 366 mg/kg	
Didecyl Dimethyl Ammonium Chloride		7173-51-5	1-5	Not Available	
SECTION III ▶ PHYSICAL DATA					
Appearance	Odour	pH	Boiling Point	Specific Gravity	Solubility in Water
Clear yellow-green liquid	Scented	7.2	100 °C	1.0	100 %
SECTION IV ▶ FIRE AND EXPLOSION HAZARD DATA					
Flash Point (°C): None			Extinguishing media: Not Applicable		
Special fire fighting procedures: None					
Unusual fire and explosion hazards: None					
SECTION V ▶ TOXICOLOGICAL PROPERTIES					
HAZARD RATING: Health = 2 Flammability = 0 Reactivity = 0					Rating System 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme
Swallowing: Slightly Toxic					
Inhalation: Slight Irritant					
Skin Absorption: Unknown					
Skin Contact: Slight to moderate irritant					
Eye Contact: Irritant					
Special Warning: None					
SECTION VI ▶ FIRST AID MEASURES					
Ingestion: Promptly drink large quantities of milk, egg whites, gelatin or water. Avoid alcohol. Call a physician immediately.					
Inhalation: Remove to fresh air. Call a physician.					
Skin: Flush thoroughly with water for at least 15 minutes. Remove and wash contaminated clothing. Call a physician.					
Eyes: Flush thoroughly with water for at least 15 minutes. Call a physician.					
SECTION VII ▶ REACTIVITY DATA					
Stable: Yes					
Conditions to avoid: None					
Incompatibility with other materials: None					
Hazardous decomposition products: None					
Hazardous polymerization: Will not occur.					
SECTION VIII ▶ PREVENTIVE MEASURES					
Hand protection: Chemical resistant gloves					
Eye protection: Safety glasses with side shields.					
Ventilation: General					
Respiratory protection: None					
Other protective equipment: In case of spills, wear chemical resistant apron and boots.					
Steps to be taken in case material is released or spilled: Mop up spillage. Rinse spill area with water and allow to dry.					
Waste disposal method: Flush with water into waste systems in accordance with municipal, provincial and federal regulations.					
Precautions to be taken in handling and storage: Normal handling processes. Inside storage at 4-40 °C recommended.					
Other precautions: Follow label use instructions.					
UN: Not Applicable		TDG Class: None		Packing Group: Not Applicable	
TDG Emergency Telephone Number: 613-996-6666 (COLLECT)					
SECTION IX ▶ PREPERATION DATA					
Prepared by: M. Mikoluk			Last updated: June 1, 2015		
Location: Dustbane Products Limited, 25 Pickering Place, Ottawa, Ontario, K1G 5P4 – 613-745-6861					

Vanguard

General Purpose Germicidal Cleaner

"Cleans, disinfects and deodorizes in one labour-saving step. This neutral quat-based cleaner is highly efficient in destroying a broad range of bacteria, viruses, fungi and other microorganisms from hard surfaces. Vanguard also effectively inhibits the growth of odour-causing mold and mildew. "

FEATURES AND BENEFITS
Environmentally friendly: A.P.E. free.
Neutral quat: Preserves the floor finish appearance.
Excellent cleaning abilities: Handles heavy duty cleaning on hard non-porous surfaces.
Multiple claims: Effectively destroys a broad range of bacteria, fungi and viruses including: Pseudomonas aeruginosa, Staphylococcus aureus, Salmonella choleraesuis, Trichophyton mentagrophyte, Influenza A/Hong Kong, Vaccinia.
Citrus fragrance: Leaves the area smelling fresh and clean.

WHERE TO USE
For use on hard non-porous surfaces such as floors, walls, furniture, sinks, tubs, toilets, garbage pails, counter tops, metal and plastic surfaces. VANGARD is intended for use in veterinary clinics, laboratories, hospitals, dental clinics, nursing homes, food processing facilities and federally inspected meat, poultry and fish establishments. Surfaces subject to direct food contact should be adequately rinsed with potable water.

HOW TO USE
Dilute according to the dilution rates mentioned below in potable water. Apply using a mop, sponge, cloth or trigger sprayer. Heavily soiled surfaces must be cleaned prior to disinfection. Thoroughly apply diluted solution to wet the surface. For disinfection, allow to remain wet for 10 minutes then remove excess liquid. To remove mold and mildew, apply the solution and allow it to dry on the treated surface.
HIV-1: When mixed at a rate of 1:80, Vanguard may be used to clean and decontaminate hard surfaces exposed to blood or other body fluids that contain the HIV-1 virus. Thoroughly clean all hard surfaces removing blood and body fluids prior to disinfection. Allow surfaces to remain wet for a minimum of 4 minutes. Wear protective clothing including latex gloves, gown, mask and safety goggles. Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations.
Recommended dilution rates:
Disinfection 1:80
Normal cleaning 1:80-1:160
Heavy duty cleaning 1:40-1:80
Mold and mildew 1:80
<i>Note: Adjust rates to suit your cleaning needs.</i>
[Note: efficacy testing was done in the presence of hard water (400 ppm as CaCO ₃) and a soil load (5% blood serum)].

SPECIFICATIONS
Didecyl dimethyl ammonium chloride: 2.88%
n-Alkyl (50% C14, 40% C12, 10% C16); dimethyl benzyl ammonium chloride: 1.92%
pH, concentrate @ 25°C: 7.2 - 7.7 (neutral)
pH, at 1:80 @ 25°C: 7.0 - 7.5
Colour: Yellow-green
Odour: Citrus
DIN#: 02213109
Agri-Food Approval: Yes