



# MATERIAL SAFETY DATA SHEET (MSDS)

## Vangard 256

General Purpose Germicidal Cleaner – 5<sup>th</sup> Generation

Germicides



SECTION I ▶ PRODUCT IDENTIFICATION					
<b>Product Name</b>		<b>Product Type</b>		<b>WHMIS Classification</b>	
Vangard 256		General Purpose Germicidal Cleaner – 5 <sup>th</sup> Generation		Exempt	
SECTION II ▶ HAZARDOUS INGREDIENTS					
<b>Chemical Name</b>		<b>Cas Registry No.</b>	<b>%</b>	<b>Toxicity</b>	
Alkyl Dimethyl Benzyl Ammonium Chloride		68424-85-1	5-10	LD <sub>50</sub> ORAL (RAT) 366 mg/kg	
Didecyl Dimethyl Ammonium Chloride		7173-51-5	5-10	Not Available	
SECTION III ▶ PHYSICAL DATA					
<b>Appearance</b>	<b>Odour</b>	<b>pH</b>	<b>Boiling Point</b>	<b>Specific Gravity</b>	<b>Solubility in Water</b>
Clear, yellow green liquid	Scented	7.2	100 °C	1.0	100 %
SECTION IV ▶ FIRE AND EXPLOSION HAZARD DATA					
<b>Flash Point (°C):</b> None			<b>Extinguishing media:</b> Not Applicable		
<b>Special fire fighting procedures:</b> None					
<b>Unusual fire and explosion hazards:</b> None					
SECTION V ▶ TOXICOLOGICAL PROPERTIES					
<b>HAZARD RATING:</b> Health = 2 Flammability = 0 Reactivity = 0					<b>Rating System</b> 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme
<b>Swallowing:</b> Corrosive					
<b>Inhalation:</b> Corrosive to respiratory tract					
<b>Skin Absorption:</b> Unknown					
<b>Skin Contact:</b> Corrosive					
<b>Eye Contact:</b> Corrosive					
<b>Special Warning:</b> None					
SECTION VI ▶ FIRST AID MEASURES					
<b>Ingestion:</b> Promptly drink large quantities of milk, egg whites, gelatin or water. Avoid alcohol. Call a physician immediately.					
<b>Inhalation:</b> Remove to fresh air. Call a physician.					
<b>Skin:</b> Flush thoroughly with water for at least 15 minutes. Remove and wash contaminated clothing. Call a physician.					
<b>Eyes:</b> Flush thoroughly with water for at least 15 minutes. Call a physician.					
SECTION VII ▶ REACTIVITY DATA					
<b>Stable:</b> Yes					
<b>Conditions to avoid:</b> None					
<b>Incompatibility with other materials:</b> None					
<b>Hazardous decomposition products:</b> None					
<b>Hazardous polymerization:</b> Will not occur.					
SECTION VIII ▶ PREVENTIVE MEASURES					
<b>Hand protection:</b> Yes (for concentrate)					
<b>Eye protection:</b> Yes (for concentrate)					
<b>Ventilation:</b> General					
<b>Respiratory protection:</b> None					
<b>Other protective equipment:</b> In case of spills, wear chemical resistant apron and boots.					
<b>Steps to be taken in case material is released or spilled:</b> Mop up spillage. Rinse spill area with water and allow to dry.					
<b>Waste disposal method:</b> Flush with water into waste systems in accordance with municipal, provincial and federal regulations.					
<b>Precautions to be taken in handling and storage:</b> Normal handling processes. Inside storage at 4-40 °C recommended.					
<b>Other precautions:</b> Follow label use instructions.					
<b>UN:</b> Not Applicable		<b>TDG Class:</b> None		<b>Packing Group:</b> Not Applicable	
<b>TDG Emergency Telephone Number:</b> 613-996-666 (COLLECT)					
SECTION IX ▶ PREPERATION DATA					
<b>Prepared by:</b> D.R. Dunlop			<b>Last updated:</b> October 30, 2009		
<b>Location:</b> Dustbane Products Limited, 25 Pickering Place, Ottawa, Ontario, K1G 5P4 – 613-745-6861					

# Vanguard 256

## General Purpose Germicidal Cleaner – 5<sup>th</sup> Generation

“One step cleaner, germicide and deodorant  
(Pseudomonacidal, Staphylocidal, Salmonellacidal, Fungicidal, Virucidal).”

### 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.

### WHERE TO USE

VANGARD 256 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

#### Recommended Dilution Rates:

General Cleaning ..... 1:256-1:500

Heavy Duty Cleaning ..... 1:40-1:256

Disinfection ..... 1:256

*Note: Adjust dilution rates to suit your cleaning needs.*

Apply with a mop, sponge or cloth.

**Mold and Mildew:** When mixed at a rate of 1:256, VANGARD 256 effectively inhibits the growth of odour-causing mold and mildew. Apply the solution and allow it to dry on the treated surface. Repeat treatment when mold or mildew returns.

**Disinfecting:** Allow a minimum contact time of 10 minutes in a single application. Surfaces subject to direct food contact should be adequately rinsed with potable water. Heavily soiled surfaces may require a precleaning step.

**HIV-1:** When mixed at a rate of 1:256, VANGARD 256 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 eye goggles. Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations. [Note: efficacy testing was done in the presence of hard water (400 ppm as CaCo<sub>3</sub>) and a soil load (5% blood serum)].

### SPECIFICATIONS

**Didecyl dimethyl ammonium chloride:** 9.22%

**n-Alkyl (50% C14, 40% C12, 10% C16); dimethyl benzyl ammonium chloride:** 6.14%

**Inert Ingredients:** 95.2%

**pH, concentrate @ 25°C:** 7.2-7.7 (neutral)

**pH, at 1:80 @ 25°C:** 7.0-7.5

**Colour:** Clear, yellow green liquid

**Odour:** Scented

**DIN#:** 02213095

**CFIA Approval:** Yes