195069

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard. 29CFR. 1910. 1200. Standard must be committed for specific requirements.

69403-1
QUICK IDENITIFER
Common Name (Used on label & list):

SANIGUARD

SECTION 1 -

Manufacturer Name: **DEM TECHNOLOGY, LLC**

Address **755 ALBANY STREET** Emergency Phone # **(937) 223-1317**

City, State and Zip **Dayton, OH 45408** Other Information: fax **(937) 223-1380**

Signature of Person Responsible for Preparation (Optional):

Date:

H HEALTH	0
F FLAMMABILITY	2
R REACTIVITY	1
PERSONAL PROTECTION	A

SECTION 2 - HAZARDOUS INGREDIENTS / IDENITITY

Hazardous Components (chemical & common names)	OSHA PEL	ACGIH TLV	Other Exposure % Limits	CAS NO.
Didecyl Dimethyl Ammonium Chloride			**0.096%**	**7173-51-5**

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point:	**130˚F**	Specific Gravity (H2O=1):	**1**	Vapor Pressure / mmHg:	**40 @ RT**
	Vapor Density (Air = 1): **1**				
Solubility in Water:	**Partially Soluble**			Reactivity in Water:	**None**
Appearance Odor	**Clear – Slight**			Melting Point	**N/A**

SECTION 4 – FIRE & EXPLOSION DATA

Flash Point:	Method Used:	Flammable Limits in Air % by Volume:	LEL	UEL
130°F	TCC		Lower: N. D.	Upper: N. D.

Auto-Ignition Temperature:	Extinguisher Media:
N. D.	**Foam, CO2, Water, Fog**

Special Fire Fighting Procedures: **Exclude Air, Smother, CO2**

Unusual Fire and Explosion Hazards: **Containers may burst explosively if overheated in fire. This information is based on available scientific evidence known to DEM Technology, LLC. It is provided solely for compliance to the Hazard Communication Standard. This information is furnished without warranty, expressed or implied.**

SECTION 5 – PHYSICAL HAZARDS (REACTIVITY DATA)

Stability:		Conditions to Avoid:	
Unstable			**N. A. – Not Applicable**
Stable	**X**		**N. D. – Not Determined**

Incompatibility (Materials to Avoid): **N. D.**

Hazardous Decomposition Products: **When heated to decomposition – will ignite**

Hazardous Polymerization:		Conditions to Avoid:
May Occur		
Will Not Occur	**X**	**N. A.**

SECTION 6 – HEALTH HAZARDS

1. Acute: **N. A.** 2. Chronic **N. A.**

Signs and Symptoms of Exposure: **Minor irritation eyes**

Medical Conditions Generally Aggravated by Exposure: **N. D.**

Chemical Listed as Carcinogen Or Potential Carcinogen:	National Toxicology Program	Yes / No x	L.A.R.C. Monographs	Yes / No x	OSHA	Yes / No x

Emergency and First Aid Procedures: **Obtain medical help if symptoms persist**

ROUTES OF ENTRY

1.	Inhalation:	**No Toxicity or Move to Fresh Air**
2.	Eyes:	**Wash with Cold Water**
3.	Skin:	**No Toxicity or Wash with Cold Water**
4.	Ingestion:	**Drink three to four glasses of Milk or Water Do not induce vomiting**

SECTION 7 – SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

Precautions to be taken in handling and storage: **Do not puncture or incinerate. Exposure to temperatures above 130˚F may cause bursting of container**

Other Precautions: **Keep away from heat, sparks and open flame**

Steps to be Taken in Case Material is released or spilled: **Contain spill and use absorbents**

Waste Disposal Methods (Consult Federal, State and Local regulations): **Incinerate or dispose of in accordance with Federal, State & Local regulations**

SECTION 8 – SPECIAL PROTECTION INFORMATION / CONTROL MEASURES

Respiratory Protection
(Specify Type) **N. A.**

Ventilation:	Local Exhaust	Mechanical General	Special	Other
		XX		

Protective Gloves: **N. A.**

Eye Protection: **USE AS DIRECTED**

Other Protective Clothing or Equipment: **N. A.**

Work / Hygienic Practices: **N. A.**

IMPORTANT:
DO NOT LEAVE ANY BLANK SPACES. If required information is unavailable, unknown or does not apply so indicate.

SaniGuard Dry on Contact Sanitizing Surface Spray and Total Release Fogger

Patented EPA Registered (EPA Reg. No. 69403) Surface Sanitizer Mfg Part # 55001, 55002, 52480, 52280, 52180

Physical Characteristics

Color – Clear
Fragrance – unscented
Vapor Density – 1.6
pH – 8.41 at 15.2c
Specific Gravity – 79c 20c

Hazardous Safety Data

Acute data as pertaining to humans:

Oral Toxicity –none
Epidermal Toxicity – none
Inhalation Toxicity – none

Precautionary Data:

Product should not be ingested or come into contact with the eyes. If ingested immediately drink 3 to 4 glasses of milk or water, do not induce vomiting, seek medical attention. If sprayed into eyes flush thoroughly with cold water.

Physical and Chemical Hazards:

Contents under preassure, should not be used near sparks or open flames, do not store at temperatures above 130°F.

Ingredients

Active Ingredient:

Didecyl dimethyl ammonium chloride

Efficacy Data – Bacterial

Description of Test:

AOAC Germicidal Spray Product Test. Test performed using 60 carriers with three samples of each representing 3 different batches. Microorganisms are dried onto glass slides and treated, percent reduction is then measured after specified time.

Independent Test Laboratory:

Hilltop Biolabs Inc.
Cincinnati, Ohio

Test Date:

06/11/1999

Percent Reduction of Test Organism After 45 Second Exposure:

Micro-Organism	ATCC #	% Reduction
Pseudomones Aeruginosa	15442	99.99
Staphylococcus Aureus	6538	99.99
Staphylococcus Aureus (MRSA)	6538	99.99
Salmonella Choleraesuis	10708	99.99
Brevibacterium Ammonagenes	6871	99.99
Chlamydia Psittaci	VR-1310	99.99
Enterobacter Aerogenes	13048	99.99
Enterobacter Cloacae	13047	99.99
Enterobacter Coli	1129	99.99
Escherichia Coli	25922	99.99
Escherichia Coli (Methicillin Resistant)	25922	99.99

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Klebsiella Pneumoniae	4352	99.99
Klebsiella Pneumoniae (Methicillin Resistent)	13883	99.99
Proteus Vulgaris	13315	99.99
Salmonella Schottmuelleri	10719	99.99
Salmonella Typhi	6539	99.99
Salmonella Typhimurium	15277	99.99
Salmonella Choleraesuis	10708	99.99
Serratia Marcescens	274	99.99
Shigella Dysenteriae	13313	99.99
Shigella Sonnei	9290	99.99
Shigella Flexneri	11836	99.99
Acinetobacter calcoaceticus	19606	99.99
Staphylococcus Epidermidis	25984	99.99
Streptococcus Faecalis	11700	99.99
Streptococcus Faecalis (Methicillin Resistant)	19433	99.99
Streptococcus Pyogenes	12344	99.99
Pseudomonas Aeruginosa	15442	99.99
Streptococcus Faecalis (Vancomycin Resistant)	11700	99.99

Efficacy Data – Fungal

Description of Test:

AOAC Fungicidal Test/AOAC Germicidal Spray Products Test. Product tested on two samples representing to different batches of the above test, each of two samples has ten carriers and inoculum concentration of 106 conidia per carrier.

Percent Reduction of Test Organism After 45 Second Exposure:

Fungi and Mold	ATCC #	% Reduction
Trichophyton Mentagrophytes	9533	99.99
Aspergilis Niger (Mold & Mildew)	6275	99.99
Candida Albicans	11651	99.99

Efficacy Data – Viral

Description of Test:

EPA DIS/TSS – 7 Test. Carrier method is modification of AOAC Germicidal Spray Products Test. Specific virus to be tested must be inoculated onto hard surface such as glass, steel, etc and allowed to dry. Two different batches of product tested against virus at room temperature for specified exposure time.

Independent Test Laboratory:

Hilltop Biolabs Inc.
Cincinnati, Ohio

Test Date:

06/11/1999

Percent Reduction of Test Virus After 45 Second Exposure:

Virus	ATCC #	% Reduction
HIV – I (AIDS Virus)	VRMC-39	99.99
Influenza – A/Brazil	VR-95	99.99
Influenza A/PR	VR-95	99.99
Rubella	VR-315	99.99
Vaccinia	VR-156	99.99
Hepitatis B (HBV)	HB-8064	99.99
Herpes Simplex Type 1	VR-733	99.99
Herpes Simplex Type 2	VR-734	99.99

Data Prepared and Compiled By

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Falls Church, VA

Date: 04/03/2006

Per: A. Hale Vandermer, Ph.D.