

195069

MATERIAL SAFETY DATA SHEET

69403-1

QUICK IDENTIFIER

Common Name (Used on label & list):

SANIGUARD

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

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 / IDENTITY

| 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 (H ₂ O=1): | 1 | Vapor Pressure / mmHg: | 40 @ RT |
|----------------|---------------|--|----------|------------------------|----------------|

Vapor Density (Air = 1): **1**

| | | | |
|----------------------|--------------------------|----------------------|-------------|
| Solubility in Water: | Partially Soluble | Reactivity in Water: | None |
|----------------------|--------------------------|----------------------|-------------|

| | | | |
|------------|-----------------------|---------------|------------|
| Appearance | | Melting Point | N/A |
| Odor | Clear - Slight | | |

SECTION 4 – FIRE & EXPLOSION DATA

| | | | | | | |
|----------------------------|--------|---------------------|-----------------------|--------------------------------------|------------------|------------------|
| Flash Point: | 130 °F | Method Used: | TCC | Flammable Limits in Air % by Volume: | LEL Lower: N. D. | UEL Upper: N. D. |
| Auto-Ignition Temperature: | N. D. | Extinguisher Media: | 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: | Unstable | Conditions to Avoid: | 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: | May Occur | Conditions to Avoid: | N. A. |
| | Will Not Occur X | | |

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
XX

Special

Other

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 pressure, 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 |
|---|---------|-------------|
| Pseudomonas Aeruginosa | 15442 | 99.99 |
| Staphylococcus Aureus | 6538 | 99.99 |
| Staphylococcus Aureus (MRSA) | 6538 | 99.99 |
| Salmonella Choleraesuis | 10708 | 99.99 |
| Brevibacterium Ammonogenes | 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 (Medicillin Resistant) | 25922 | 99.99 |

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| | | |
|--|-------|-------|
| Klebsiella Pneumoniae | 4352 | 99.99 |
| Klebsiella Pneumoniae (Methicillin Resistant) | 13883 | 99.99 |
| Proteus Vulgaris | 13315 | 99.99 |
| Salmonella Schotmuelleri | 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 |
| Aspergillus 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 |
| Hepatitis 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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Date: 04/03/2006

Per: A. Hale Vandermer, Ph.D.