



## Material Safety Data Sheet

### 1. Chemical Product & Company Data

Product Name: <b>Microban Germicidal Cleaner</b>	
Manufacturer:  ProRestore Products 4660 Elizabeth Street Coraopolis, PA 15108 Telephone: 1-412-264-8340	Supplier:

### 2. Ingredients

Name	CAS #	UN #	% by volume
Di-N-alkyl (C <sub>8-10</sub> ) dimethylammonium chloride	68424-95-3		0.05
Secondary Alcohol Ethoxylates	84133-50-6		0.04
N-Alkyl (C <sub>12-16</sub> ) dimethylbenzylammonium chloride	68424-85-1		0.03
Tetrasodium Ethylenediamine Tetraacetate	64-02-8		0.03
Sodium Metasilicate	6834-92-0		0.01
Water	7732-18-5		> 90

### 3. Hazards Identification

Emergency Overview				
CAUTION: May cause eye irritation. Avoid contact with eyes. Keep out of reach of children.				
Eye irritation (rabbit): non-irritant (primary irritation index = 0.0) Skin irritation (rabbit): non-irritant (primary irritation index = 0.0)				
Primary Routes of Entry	Skin Contact	X	Eye Contact	X
	Inhalation		Ingestion	
<b>Effects of overexposure:</b> Based on the available animal toxicity information, it is anticipated that this material will cause mild or no skin or eye irritation upon direct or prolonged contact. No human overexposure data is available for this material.				
<b>Overexposure may aggravate existing conditions:</b> No effects indicated.				

### 4. First Aid

Emergency and First Aid Procedures:
<b>Eyes:</b> Flush eyes with plenty of water for several minutes. Seek medical attention if irritation develops.
<b>Skin:</b> Wash affected areas with plenty of water and soap, if available, for several minutes. Seek medical attention if irritation develops.
<b>Ingestion:</b> If swallowed, give 3-4 glasses of milk (if unavailable, give water), but DO NOT induce vomiting. If vomiting does occur, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.
<b>Inhalation:</b> Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

## Microban Germicidal Cleaner

### 5. Fire Fighting Measures

Flammability Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, under which conditions?	
Flashpoint: Non-flammable	Upper flammable limit % by volume n. ap.	Lower flammable limit % by volume n. ap.
Autoignition temperature Not known	Hazardous combustion products Products of combustion are toxic.	Explosion data n. ap.
Means of extinction: Water, foam, dry chemical, alcohol foam, CO <sub>2</sub> .		

### 6. Accidental Release Measures

#### Steps to be taken in case material is released or spilled

Caution! Floors may become slippery. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

### 7. Handling & Storage

#### Precautions For Storage and Handling:

Store at temperatures below 140 °F (60 °C). Keep containers closed until used.

Do not contaminate drinking water, food or feed by storage or disposal.

### 8. Exposure Controls & Personal Protection

Personal Protective Equipment		
Gloves Rubber or neoprene, when needed to prevent skin contact.	Proper Ventilation General ventilation recommended for large jobs.	Eye Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.
Footwear n. ap.	Clothing Long sleeve shirts or coveralls as appropriate.	Other Eye wash station, safety shower as appropriate. Respirator.
Exposure Guidelines		
<b>EFFECTS OF OVEREXPOSURE</b> Based on the available animal toxicity information, it is anticipated that this material will cause mild or no skin or eye irritation upon direct or prolonged contact. No human overexposure data is available for this material.		
<b>OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS</b> No effects indicated.		

## Microban Germicidal Cleaner

### 9. Physical and Chemical Properties

Physical state Liquid	Odor and appearance Clear liquid with lemon odor	
Odor threshold (ppm) Not known	Vapor pressure (mm Hg) Not known	Vapor density (Air=1) Not known
Evaporation (butyl acetate = 1) Not known	Boiling point 212 °F (100 °C)	Freezing point 32 °F (0 °C)
pH 11.0	Specific gravity 1.00 @ 25 °C	Coefficient water/oil distribution
Solubility in water Complete	Viscosity Not Known	% Volatiles (by weight) 99.8%

### 10. Stability and Reactivity

Chemical Stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If no, under which conditions?	
Incompatibility with other substances Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, under which conditions? None known	
Reactivity, and under what conditions?	Not known	
Hazardous decomposition products?	Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials, and oxides of carbon and nitrogen.	

### 11. Toxicological Information

Route of Entry Skin Contact <input checked="" type="checkbox"/> Skin Absorption <input type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion <input type="checkbox"/>
Eye irritation (rabbit): non-irritant (primary irritation index = 0.0) Skin irritation (rabbit): non-irritant (primary irritation index = 0.0)  This product does not contain any known or anticipated carcinogens according to the NTP Annual Report on carcinogens and OSHA 29 CFR 1910.1000, Subpart Z.

### 12. Ecological Information

Considered biodegradable.
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### 13. Disposal Considerations

**Waste Disposal Methods:**

Dispose of in compliance with all federal, state and local laws and regulations. Incineration is the preferred method.

**Container Disposal:**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### 14. Transport Information

Shipping Name: NOT REGULATED

Hazard Class:

UN Identification #:

DOT Classification - Not a DOT controlled material (USA)

IMDG - Not controlled under IMDG

IATA - Not controlled under IATA

### 15. Regulatory Information

Federal Level Regulations:

This is an EPA registered pesticide (EPA Reg # 70385-8)

Toxic Substances Control Act (TSCA Inventory) Status:

Found on U.S. EPA TSCA inventory.

CERCA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs) listed in 40 CFR 302.4:

Chemical Name:	CAS Number:	Typical Maximum Concentration:
None Known		

SARA Title III, Sections 302/304 (Superfund Amendments and Reauthorization act of 1986) - This act requires emergency planning, including agency notification for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs) listed for components in 40 CFR 355:

Chemical Name:	CAS Number:	Typical Maximum Concentration:
None Known		

SARA Title III Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:

Chemical Name:	CAS Number:	Typical Maximum Concentration:
None Known		

The five hazard categories are as follows: F=FIRE HAZARD; S=SUDDEN RELEASE OF PRESSURE; R=REACTIVE; A=IMMEDIATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONIC) HEALTH HAZARD

## Microban Germicidal Cleaner

### 16. Other Information

HMIS (U.S.A.) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: blue; color: white; padding: 2px;">Health Hazard</td> <td style="text-align: center; padding: 2px;">1</td> </tr> <tr> <td style="background-color: red; color: white; padding: 2px;">Fire Hazard</td> <td style="text-align: center; padding: 2px;">0</td> </tr> <tr> <td style="background-color: yellow; padding: 2px;">Reactivity</td> <td style="text-align: center; padding: 2px;">0</td> </tr> <tr> <td style="padding: 2px;">Personal Protection</td> <td style="text-align: center; padding: 2px;">a</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0	Personal Protection	a	National Fire Protection Association (U.S.A.)	
Health Hazard	1									
Fire Hazard	0									
Reactivity	0									
Personal Protection	a									
For chemical emergency during transportation call INFOTRAC (US) <b>1-800-535-5053</b> (INT'L) <b>1-352-323-3500</b>										
Prepared by: ProRestore Products, Coraopolis, PA / Cliff Zlotnik	Phone No: 1-412-264-8340	Date: January 20, 2009								

**Abbreviations:**

n. av. = not available  
 mm Hg = millimeters of Mercury  
 COC = Cleveland Open Cup  
 LD = Lethal Dose

n. ap. = not applicable  
 PMCC = Pensky Martens Closed Cup  
 TWA = Time Weighted Average  
 LC = Lethal Concentration

ppm = parts per million  
 TCC = Tagliabue Closed Cup  
 STEL = Short Term Exposure Limit  
 cs = centistokes

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