

### Material Safety Data Sheet

### 1. Chemical Product & Company Data

Product Name: Microban X-580 Institutional Spray Plus (California Version)			
Manufacturer:	Supplier:		
ProRestore Products 4660 Elizabeth Street Coraopolis, PA 15108 Telephone: 1-412-264-8340			

### 2. Ingredients

Name	CAS#	UN #	% by volume
2-propanol	67-63-0		10-30
Octylphenoxypolyethoxyethanol (nonionic surfactant)	9036-19-5		1-5
Active Ingredients:			
o-Phenylphenol	90-43-7		<b>.</b> 22
Diisobutylphenoxyethoxy ethyl dimethyl benzyl ammonium chloride monohydrate	121-54-0		<b>.</b> 70
N-octyl bicycloheptene dicarboximide	113-48-4		<b>.</b> 33
Piperonyl butoxide technical	51-03-6		<b>.</b> 20
Pyrethrins	51-92		<b>.</b> 10

#### 3. Hazards Identification

#### **Emergency Overview**

Flammable liquid. Skin and eye irritant.

NOTE: Hazard information is based on the characteristics of the components of this mixture.

**Ingestion** - May cause abdominal discomfort, nausea, vomiting and diarrhea. Drowsiness or unconsciousness may occur.

**Inhalation** - Low concentration of the vapor may cause irritation of the respiratory tract with possible chest pain and coughing. High concentrations may cause headache and drowsiness.

Eye Contact - Causes eye irritation and possible corneal injury.

**Skin Contact** - Prolonged contact may cause discomfort, redness, drying and defatting of the skin.

#### 4. First Aid

**Ingestion** - If swallowed, promptly drink large quantities of water. Do not induce vomiting. Do not administer water to an unconscious person

**Inhalation** - Remove to fresh air. Administer artificial respiration if not breathing.

**Eye Contact** - Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

**Skin Contact** - Remove contaminated clothing. Wash skin with soap and water.

## 5. Fire Fighting Measures

Flammability Yes X No				
Flashpoint: 77 °F (25 °C)	Upper flammable limit % by volume n. av.	Lower flammable limit % by volume n. av.		
Autoignition temperature n. av.	Hazardous combustion products Carbon monoxide and/or carbon dioxide	Explosion data n. ap.		
	Means of extinction:  Apply alcohol type or all purpose foam for large fires. Use dry chemical media or carbon dioxide extinguishers for small fires. SCBA and bunker gear for fire department personnel			

### **6. Accidental Release Measures**

Eliminate all sources of ignition.

Wear personal protective equipment.

Do not allow spill to reach watercourse or sewers.

Contain spill with absorbent mats or booms or inert materials such as sand. Material should be readily available in the workplace.

Collect and store waste materials in suitable containers for disposal i.e. metal drums.

## 7. Handling & Storage

Store in a cool dry place.

Keep containers closed and away from heat or flame.

Do not use or store near open flame.

### 8. Exposure Controls & Personal Protection

Personal Protective Equipment					
Gloves Natural Rubber	Respirator In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.		Eye Goggles or full face respira	tor	
Footwear n. ap.	Clothing Coveralls or equivalent		Other n. ap.		
*none established for product*					
	OSHA A		ACGIH		
	TWA	STEL	TWA	STEL	
2-propanol	400 ppm	500 ppm	400 ppm	500 ppm	

## 9. Physical and Chemical Properties

Physical state Liquid	Odor and appearance Light yellow liquid, faint mint odor		
Odor threshold (ppm) n. av.	Vapor pressure (mm Hg) n. av.	Vapor density (Air=1) n. av.	
Evaporation (butyl acetate = 1) n.av.	Boiling point 215.6 °F (102 °C)	Freezing point n. av.	
pH 6.5 - 7.5	Specific gravity 0.9	Coefficient water/oil distribution n. av.	
Solubility in water 100%	Viscosity n. av.	% Volatiles (by weight) 25%	

## 10. Stability and Reactivity

Chemical Stability Yes X No		If no, under which conditions?	
Incompatibility with other survives X No	bstances	If yes, under which conditions?	Avoid strong oxidizing agents.
Reactivity, and under Stable under normal conditions. what conditions?			
Hazardous decomposition Carbon monoxide and/or carbon dioxide as combustion by-products. products?			

## 11. Toxicological Information

Route of Entry Skin Contact X	Skin Absorption Eye	Contact X Inhalation	Ingestion X
Oral LD50 (rat): >5,000 mg/kg Dermal LD50 (rabbit): >5,000 mg/kg Inhalation LC50 (rat): 2.88 mg/L Eye Irritation (rabbit): Severe Irritant Skin Irritation (rabbit): Slight Irritant Dermal Sensitization (guinea pig): No			
Carcinogenicity	Mutagenicity	Teratogenicity	Reproductive toxicity
No	No	No	No
Synergistic products	Sensitization	Neurotoxicity	Target organs
No	No	No	Eyes and Skin

# 12. Ecological Information

Octylphenoxypolyethoxyethanol (CAS # 9036-19-5) Aquatic effects 96 hr. Fathead Minnow LC50 8.9mg./L

#### 13. Disposal Considerations

Disposal for household/residential containers, 1 gallon or smaller container:

If empty: Do not reuse the container. Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

Disposal for nonresidential, nonhousehold containers, 5 gallon pails, 55 gallon drums:

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

Pesticide storage: Keep from freezing. Store in ventilated areas.

Pesticide disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Container disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose or in a sanitary landfill, or incineration, or, of allowed by state and local authorities, by burning. If burned stay out of smoke.

### 14. Transport Information

Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (Contains: 2-Propanol)

Hazard Class: 3 (Packing Group III)

UN Identification #: UN1993

US Domestic shipments up to 5 liters (1.3 gallons) per bottle

Consumer Commodity ORM-D for ground shipments, quarts and gallons only. Consumer Commodity ORM-D-AIR for air shipments, quarts and gallons only.

### 15. Regulatory Information

This material safety data sheet has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Hazardous Products Act (Can.) and the Controlled Products Regulations (Can.) This product has been classified in accordance with the hazard criteria of the CPR (Can.) and the MSDS contains all the information required by the CPR (Can.).

Federal Level Regulations: This is an EPA FIFRA registered pesticide (EPA Registration No. 70385-3). This material can only be used commercially in the EPA registered application(s) noted on the product label.

This product is classed as a **flammable liquid and as a skin and eye irritant** - 29 CFR 1910.1200 and Controlled Products Regulations (Can.)

WHMIS classification B2 D2B

This product is not subject to the reporting requirement of Section 313 of Title III of Superfund Amendments and Reauthorization Act (SARA) 1986 and 40 CFR part 372.

California Proposition 65:

Warning! This product contains chemical(s) known to the state of California to be Carcinogenic.

Weight%

.22%

O-Phenylphenol

GAS No.
90-43-7

Carcinogenic Effects

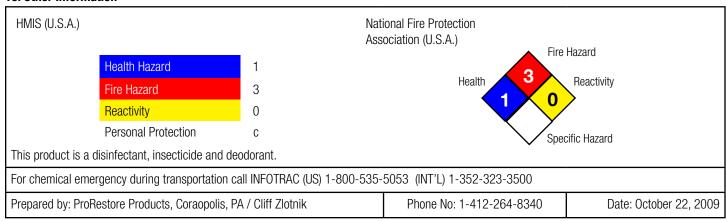
For Component: o-Phenylphenol

Ortho-phenylphenol and Sodium ortho-phenylphenol were tested in accordance with the EPA Final Guidance for Carcinogenic Risk. OPP and Na-OPP were classified as "Not Likely to be Carcinogenic to Humans" based on no evidence of carcinogenic effects at the defined dose range of 200 mg/kg/day. At doses greater than 200 mg/kg/day, OPP and Na-OPP were classified as "Likely to be Carcinogenic to Humans" based on the presence of urinary bladder tumors in rats and the presence of liver tumors in mice.

Carcinogenicty:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA.

### 16. Other Information



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

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#### PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: May be harmful if swallowed (inhaled or absorbed through the skin). Do not breathe vapors (dust or spray mist). Causes eve (and skin) irritation. Do not get in eyes, on skin or on clothing.

#### FIRST AID

IF IN EYES: Hold eve open and rinse slowly and cently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air, If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

#### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Microban Formula X-580 Institutional Spray Plus should be applied with hand or power operated sprayers, automated metering systems or gravity drip dispensers as an insecticide, and deodorizing agent, to previously cleaned surfaces. Spray areas until thoroughly moist, giving special attention to cracks and crevices. Allow ten to twenty minutes for drying, it is not necessary to wipe the sprayed surface. Microban Formula X-580 Institutional Spray Plus should not stain those materials not stained by water. Remove pets, birds, and cover fish aquariums

> Direct and repeat spraying of Ants, Roaches, Bedbugs, Silverfish and other harmful insects and in the cracks, crevices and hidden surfaces where they hide are necessary for control. Apply every 28 days or as often as needed.

To Kill Fleas and Ticks: Remove and destroy old animal bedding. Spray sleeping guarters of animals, floor areas, around baseboards, window and door frames, cracks, crevices and wherever the presence of these insects are suspected. Repeat as necessary. Thoroughly vacuum rugs and carpets prior to application. Do not spray animals. Put fresh bedding in animal quarters after spray has dried. Treat animals with a registered flea and tick control product before allowing them to enter treated area.

Section Substitution (Section Section Section

To Kill Flies, Mosquitoes, Gnats and Wasps: Close all doors and windows and spray upward into center of room with a slow sweeping motion. Spray 5-10 seconds for average room. Keep room closed for 15 minutes after spraying. Ventilate room thoroughly before re-entry. Sweep up and destroy fallen insects. Before spraying cover exposed food and utensils.

To Kill Carpet Beetles, Lice and Moths: Clean all articles prior to application. Thoroughly spray top and undersides of rugs and carpets. Thoroughly spray the interiors of lockers, trunks, closets, cupboards and other storage areas. Spray directly on restroom fixtures. When treating upholstered furniture and mattresses thoroughly spray exterior, paying particular attention to seams and folds, Interior should be treated to eliminate hidden infestations.

Microban Formula X-580 Institutional Spray Plus when used as directed is effective in decontaminating the treated exposed surfaces of bedding, mattresses, textiles, drapes, upholstered furniture, rugs, carpets and in storage areas to control insects and odors wherever they are a problem.

- Pest Control Service
- Odor Control Service
- Carpet Cleaning Service
- Disinfection Service
- Waste-Removal Service
- Trash Chutes and Garbage Rooms
- Waste Compactors
- Storage areas and Basements
- Condensation collection and Drainage areas
- Refuse trucks
- Shoes and boots

- Movie booths
- Bowling allevs
- Exercise rooms
- Veterinaries
- - Laundry receiving stations
  - Antique shops Upholsterers shops



# DISINFECTANT - INSECTICIDE - DEODORANT

FOR INSTITUTIONAL, HOUSEHOLD, FARM PREMISE USES AND ANIMAL QUARTERS

Microban Formula X-580 Institutional Spray Plus is a Disinfectant and is also effective in controlling insects and odors.

#### ACTIVE INGREDIENTS o-Phenylphenol Diisobutylphenoxyethoxy ethyl dimethyl benzyl ammonium chloride monohydrate N-octyl bicycloheptene dicarboximide Piperonyl butoxide technical

INERT INGREDIENTS

[ equivalent to (butylcarbityl) (6-propyl piperonyl) ether: 0.16% and related compounds: 0.04%

E.P.A. Rea. No. 70385-3 E.P.A. EST. No. 70385-PA-001

## **KEEP OUT OF REACH OF CHILDREN** WARNING SEE PRECAUTIONS ON SIDE PANEL

Net Contents: □ 8 OZ. (0.237) Litres □ 1 PT. (0.473) Litres □ 1 QT. (0.946) Litres ■ 1 GAL. (3.785) Litres □ 5 GAL. (18.925) Litres □ 55 GAL. (208.175) Litres Mfg by: PRORESTORE PRODUCTS, 4660 Elizabeth Street, Coraopolis, PA. 15108 SHAKE WELL BEFORE AND DURING USE U.S. Patent No. 3,458,629

#### **GENERAL METHOD OF APPLICATION**

Surfaces and objects must be cleaned of gross filth with suitable detergent before treatment. Spray surfaces and articles until thoroughly wet, use enough so that treated surfaces and objects remain wet for at least 10 minutes. May be applied with a sponge to pre-cleaned, hard non-porous surfaces, allowing to dry for 10 minutes. Heavily treated spaces should be adequately ventilated and not re-entered for at least one hour after treatment.

AS A DISINFECTANT: In hospitals, operating rooms, emergency rooms, lobbies, hallways, patient rooms, wards, washrooms, scrub stations, mop rooms, morques, pathology labs, nurse's stations, laboratories, veterinary clinics and other health care facilities; in schools, hotels, motels, restaurants, offices, homes and industrial buildings. For use on pre-cleaned hard non-porous surfaces such as glazed tiled porcelain, waste receptacles, compactors, on, in and around rest room fixtures, toilet seats, locker rooms, telephones, door knobs, hospital apparatus and equipment, furniture and empty containerized storage units.

#### AS A DEODORIZING AGENT

For use as a deodorizing agent on carpeting found in schools, hotels, motels, homes, shelters, commercial, industrial and public buildings. Apply full strength with sprayer until moist to carpet nap and rake or brush in. Allow to remain dry, For best results, carpets should be cleaned before application.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

#### TO DISINFECT FARM PREMISES, POULTRY HOUSES, ANIMAL PENS AND VEHICLES

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers, with soap or detergent and rinse with potable water before reuse. Apply Microban Formula X-580 Institutional Spray Plus full strength as directed in general method of application until thoroughly wet. Allow all surfaces to dry thoroughly, ventilate enclosed spaces adequately. Do not house animals in treated areas until thoroughly dry and free from odors.

#### PHYSICAL AND CHEMICAL HAZARDS

Flammable. Keep away from heat and open flame.

#### STORAGE AND DISPOSAL (for containers larger than one gallon)

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

PESTICIDE STORAGE: Keep from freezing. Store in ventilated areas.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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.

#### STORAGE AND DISPOSAL (for household/residential containers)

IF EMPTY: Do not reuse this container. Place in trash or offer for recycling if available.

IF PARTLY FILLED: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain

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