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Material Safety Data Sheet

1. Chemical Product & Company Data

Product Name: Microban X-590 Institutional Spray		Revision Date: January 24, 2013
Manufacturer:	Supplier:	
ProRestore Products 1016 Greentree Road, Suite 115 Pittsburgh, PA 15220 Telephone: 1-412-264-8340		
CHEMICAL EMERGENCY: INFOTRAC (US) 1-800-535-5053 (INT'L) 1-800-323-3500		

2. Ingredients

Name	CAS #	UN #	% by volume
2-propanol	67-63-0		10-30
Octylphenoxypolyethoxyethanol (nonionic surfactant)	9036-19-5		1-5
<i>Active Ingredients:</i>			
o-Phenylphenol	90-43-7		.22
Diisobutylphenoxyethoxy ethyl dimethyl benzyl ammonium chloride monohydrate	121-54-0		.70
N-octyl bicycloheptene dicarboximide	113-48-4		.33
Piperonyl butoxide technical	51-03-6		.20
D-trans allethrin	28051-48-9, 584-79-2		.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

<p>Ingestion - If swallowed, promptly drink large quantities of water. Do not induce vomiting. Do not administer water to an unconscious person</p> <p>Inhalation - Remove to fresh air. Administer artificial respiration if not breathing.</p> <p>Eye Contact - Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.</p> <p>Skin Contact - Remove contaminated clothing. Wash skin with soap and water.</p>

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5. Fire Fighting Measures

Flammability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, under which conditions? Flammable liquid. Potential fire hazard when exposed to excessive heat, flame or other sources of ignition.	
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

<p>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.</p>

7. Handling & Storage

<p>Store in a cool dry place. Keep containers closed and away from heat or flame. Do not use or store near open flame.</p>

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 respirator	
Footwear n. ap.	Clothing Coveralls or equivalent		Other n. ap.	
Exposure Guidelines				
none established for product				
	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
2-propanol	400 ppm	500 ppm	400 ppm	500 ppm
Limit values in other countries:				
2-propanol	UK	OES (8 hr TWA)	999 mg/m ³	
2-propanol	Australia	(8 hr TWA)	500 mg/m ³	

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9. Physical and Chemical Properties

Physical state Liquid	Odor and appearance Light yellow transparent 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) 95%

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 checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, under which conditions? Avoid strong oxidizing agents.
Reactivity, and under what conditions?	Stable under normal conditions.
Hazardous decomposition products?	Carbon monoxide and/or carbon dioxide as combustion by-products.

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 checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/>			
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			
Carcinogenicity No	Mutagenicity No	Teratogenicity No	Reproductive toxicity No
Synergistic products No	Sensitization No	Neurotoxicity No	Target organs Eyes and Skin

12. Ecological Information

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

13. Disposal Considerations

Dispose of in compliance with all Federal, state, and local laws and regulations.

14. Transport Information

Only quarts and gallons ship as Consumer Commodity ORM-D for ground shipments in the US.

Shipping Name: FLAMMABLE LIQUIDS, N.O.S. (ISOPROPANOL)

Hazard Class: 3 (Packing Group III)

UN Identification #: UN1993

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.)

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.)

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.

<u>Weight%</u>	<u>Compone</u>	<u>CAS No.</u>
2 PPM	1,4 Dioxane	123-91-1
.22%	o-Phenylphenol	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

This product is a disinfectant, insecticide and deodorant.

Abbreviations:

n. av. = not available

mm Hg = millimeters of Mercury

COC = Cleveland Open Cup

LD = Lethal Dose

n. ap. = not applicable

PMCC = Pinsky Martens Closed Cup

TWA = Time Weighted Average

LC = Lethal Concentration

ppm = parts per million

TCC = Tagliabue Closed Cup

STEL = Short Term Exposure Limit