



Material Safety Data Sheet

1. Chemical Product & Company Data

Product Name: Microban X-580 Institutional Spray Plus	
Manufacturer: Il Rep-Z, Inc. 4660 Elizabeth Street Coraopolis, PA 15108 Telephone: 1-412-264-8340	Supplier:

2. Ingredients

Name	CAS #	UN #	% by volume
2-propanol	67-63-0		10-30
Octylphenoxypolyethoxyethanol (nonionic surfactant)	9036-19-5		1-5

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

In case of contact flush eyes and skin with plenty of water for at least fifteen minutes. For eyes get medical attention. If swallowed promptly drink large quantities of water. Do not induce vomiting. Remove and wash contaminated clothing before reuse.
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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: 81 °F (27.2 °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.</p> <p>Wear personal protective equipment.</p> <p>Do not allow spill to reach watercourse or sewers.</p> <p>Contain spill with absorbent mats or booms or inert materials such as sand. Material should be readily available in the workplace.</p> <p>Collect and store waste materials in suitable containers for disposal i.e. metal drums.</p>

7. Handling & Storage

<p>Use non sparking tools and explosion proof mechanical equipment when working with this liquid i.e. pumps and sprayers. Extinguish all sources of ignition in the work area. If the product is stored in metal containers the container must be grounded and bonded prior to dispensing the liquid. To prevent vapor escaping to the atmosphere keep all containers closed or covered. The product should be stored in a separate room equipped for flammable liquid storage or small volumes may be stored in a flammable liquid cabinet. Check local Health and Safety Authority for the volume limits in these situations. Eye-wash stations are required in the workplace. If eye irritation is encountered the use of a full facepiece respirator is recommended. Mechanical ventilation is recommended in enclosed workspaces. Area should be evacuated of all non essential personnel prior to application of product.</p>

8. Exposure Controls & Personal Protection

Personal Protective Equipment				
Gloves Natural Rubber	Respirator NIOSH TC-23C organic vapor respirator or equivalent		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

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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 <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"/>			
No toxicity studies have been conducted for the product. 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): Not a dermal sensitizer			
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

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13. Disposal Considerations

Do not dispose of product in storm or sanitary sewer systems.
Do not allow discharge into groundwater or a watercourse.
If product is to be disposed of, contact a licensed or registered waste disposal firm to incinerate the product.

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.).

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.

16. Other Information

This product is a disinfectant, insecticide and deodorant.

For chemical emergency during transportation call INFOTRAC (US) **1-800-535-5053** (INT'L) **1-352-323-3500**

Prepared by: II Rep-Z, Inc., Coraopolis, PA / Cliff Zlotnik	Phone No: 1-412-264-8340	Date: Sept. 12, 2005
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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