



MATERIAL SAFETY DATA SHEET

1. Chemical Product & Company Data

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

2. Hazardous 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 drink promptly large quantities of water.
Do not induce vomiting. Remove and wash contaminated clothing before reuse.

Microban X-580 Institutional Spray Plus

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
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</p> <p>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. Eyewash 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 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

Microban X-580 Institutional Spray Plus

9. Physical & 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 rate (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 & 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 contact with strong oxidizing agents
Reactivity, and under what conditions? stable under normal conditions	
Hazardous decomposition products carbon dioxide and/or carbon monoxide as combustion products	

11. Toxicological Information

Route of Entry			
Skin contact <input checked="" type="checkbox"/>	Skin absorption <input type="checkbox"/>	contact <input checked="" type="checkbox"/>	Inhalation <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/>
Oral LD ₅₀ (rat): >5,000 mg/kg Dermal LD ₅₀ (rabbit): >5,000 mg/kg Inhalation LC ₅₀ (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 skin and eyes

12. Ecological Information

Octylphenoxypolyethoxyethanol (CAS # 9036-19-5) Aquatic effects 96 hr. Fathead Minnow LC ₅₀ 8.9 mg/L

Microban X-580 Institutional Spray Plus

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)
Identification UN1993

US Domestic shipments up to 5 liters (1.3 gallons) per bottle
Consumer Commodity ORM-D for ground shipments
Consumer Commodity ORM-D-AIR for air shipments

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 requirements 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 commercial cleaning and deodorizing chemical.

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 March 9, 2004

abbreviations

n. av. = not available n. ap. = not applicable ppm = parts per million mm Hg = millimeters of Mercury
cs = centistokes PMCC = Pensky Martens Closed Cup TCC = Tagliabue Closed Cup COC = Cleveland Open Cup
TWA = time weighted average STEL = short term exposure limit LD= lethal dose LC=lethal concentration