



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
Octylphenoxy polyethoxyethanol (nonionic surfactant)	9036-19-5		1-5
Active Ingredients:			
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
Pyrethrins	51-92		.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.

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

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

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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, if 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.).

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**

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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 = Pensky Martens Closed Cup

TWA = Time Weighted Average

LC = Lethal Concentration

ppm = parts per million

TCC = Tagliabue Closed Cup

STEL = Short Term Exposure Limit