



Material Safety Data Sheet

1. Chemical Product & Company Data

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| Product Name: Microban X-580 Institutional Spray Plus | |
| Manufacturer: ProRestore Products 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 |
| 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.

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: 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

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| <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> |
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7. Handling & Storage

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| <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 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 |

Microban X-580 Institutional Spray Plus

9. Physical and Chemical Properties

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|--|---|--|
| 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

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|--|---------------------|----------------------|--------------------------------|
| 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

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| 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, 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.

16. Other Information

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|---|--------------------------|---|-------------|---|------------|---|---------------------|---|---|
| <p>HMIS (U.S.A.)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: blue; color: white; padding: 2px;">Health Hazard</td> <td style="text-align: center; padding: 2px;">1</td> </tr> <tr> <td style="background-color: red; color: white; padding: 2px;">Fire Hazard</td> <td style="text-align: center; padding: 2px;">3</td> </tr> <tr> <td style="background-color: yellow; padding: 2px;">Reactivity</td> <td style="text-align: center; padding: 2px;">0</td> </tr> <tr> <td style="padding: 2px;">Personal Protection</td> <td style="text-align: center; padding: 2px;">c</td> </tr> </table> | Health Hazard | 1 | Fire Hazard | 3 | Reactivity | 0 | Personal Protection | c | <p>National Fire Protection Association (U.S.A.)</p> <div style="text-align: center;"> <p style="font-size: small;">Health Fire Hazard 1 3 Reactivity Specific Hazard</p> </div> |
| Health Hazard | 1 | | | | | | | | |
| Fire Hazard | 3 | | | | | | | | |
| Reactivity | 0 | | | | | | | | |
| Personal Protection | c | | | | | | | | |
| <p>This product is a disinfectant, insecticide and deodorant.</p> | | | | | | | | | |
| <p>For chemical emergency during transportation call INFOTRAC (US) 1-800-535-5053 (INT'L) 1-352-323-3500</p> | | | | | | | | | |
| Prepared by: ProRestore Products, Coraopolis, PA / Cliff Zlotnik | Phone No: 1-412-264-8340 | | | | | | | | |
| Date: March 16, 2009 | | | | | | | | | |

Abbreviations:

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|--------------------------------|----------------------------------|----------------------------------|
| n. av. = not available | n. ap. = not applicable | ppm = parts per million |
| mm Hg = millimeters of Mercury | 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 | |