

SAFETY DATA SHEET

PRORESTORE

PRODUCTS

Revision Date 04-Aug-2016
Version 1

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Microban Germicidal Cleaner Concentrate Lemon
Product code LG-F1044-US

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Disinfectant Cleaner
Restrictions on use Professional Use Only
EPA Registration Number 70385-6

Other information This SDS is reviewed as an US EPA registered product.

1.3 Details of the supplier of the safety data sheet

Supplier ProRestore Products
1016 Greentree Road, Suite 115
Pittsburgh, PA 15220
Phone: (412) 264-8340

1.4 Emergency telephone number

Emergency telephone number INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

2.2 Label elements

Signal Word
Danger

Hazard Statements
Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Do not breathe dusts or mists
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 Immediately call a POISON CENTER or doctor
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3. Other Hazards Hazards not otherwise classified (HNOC)

Not Applicable

2.4 Other information

Not Applicable

Unknown Acute Toxicity < 1% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

Substance Mixture

Chemical Name	CAS-No	Weight %
QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-ALKYLDIMETHYL, CHLORIDES	68424-95-3-LB	1 - 5
Ammonium chloride compound	68424-85-1-LB	1 - 5
TETRASODIUM EDTA	64-02-8	1 - 5
Ethanol	64-17-5	1 - 5

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

4.1 Description of first-aid measures

General advice When symptoms persist or in all cases of doubt seek medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention.

Skin contact Wash off immediately with soap and plenty of water. Use a mild soap if available.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, fog, Carbon dioxide (CO₂), foam or dry chemical.

Unsuitable Extinguishing Media High volume water jet.

5.2 Special hazards arising from the substance or mixture

Special Hazard

Hazardous decomposition products formed under fire conditions Immediately place absorbent material in a sealed water-filled metal container to avoid spontaneous combustion of absorbent material contaminated with this product

Hazardous Combustion Products No information available.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment.

6.2 Environmental precautions

Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological information.

6.3 Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas.

Hygiene measures When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from frost.

Materials to Avoid Metals.

8. Exposure controls/personal protection

8.1 Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	British Columbia	Alberta	Quebec	Ontario TWAEV
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1880 mg/m ³	TWA: 1000 ppm TWA: 1880 mg/m ³	STEL: 1000 ppm

8.2 Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

8.3 Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Safety glasses with side-shields.
- Skin and body protection** Long sleeved clothing.
- Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.
- Hygiene measures** See section 7 for more information

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear liquid
Color light yellow
Odor Lemon
Odor Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	12.4	
Melting/freezing point		No information available
Boiling point/boiling range	102 °C / 216 °F	
Flash Point	94 °C / 201 °F	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity	1.01	
Water solubility	completely soluble	
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

9.2 Other information

Volatile organic compounds (VOC) content 11 g/L

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

Protect from frost, heat and sunlight.

10.5 Incompatible Materials

Metals.

10.6 Hazardous Decomposition Products

None known.

11. Toxicological information

11.1 Acute toxicity

Numerical measures of toxicity: Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Unknown Acute Toxicity < 1% of the mixture consists of ingredient(s) of unknown toxicity

Oral LD50	7,444.00 mg/kg
Dermal LD50	5,115.00 mg/kg
LC50 (Dust/Mist)	78.90 mg/l
LC50 (Vapor)	551.00 mg/l

Numerical measures of toxicity: Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
TETRASODIUM EDTA 64-02-8	1658 mg/kg (Rat)	-	-
Ethanol 64-17-5	-	-	= 124.7 mg/L (Rat) 4 h

11.2 Information on toxicological effects

Skin corrosion/irritation

Product Information

- No information available

Component Information

- No information available

Serious eye damage/eye irritation

Product Information

- No information available

Component Information

• No information available

Respiratory or skin sensitization

Product Information

• No information available

Component Information

• No information available

Germ cell mutagenicity

Product Information

• No information available

Component Information

• No information available

Carcinogenicity

Product Information

• No information available

Component Information

• No information available

Reproductive toxicity

Product Information

• No information available

Component Information

• No information available

STOT - single exposure

No information available

STOT - repeated exposure

- May cause adverse liver effects
- Contains a known or suspected reproductive toxin

Other adverse effects

Product Information

• No information available

Component Information

• No information available

Aspiration hazard

Product Information

• No information available

Component Information

• No information available

12. Ecological information

12.1 Toxicity

Ecotoxicity No information available

8.16497 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity effects

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
TETRASODIUM EDTA 64-02-8	EC50: 72 h Desmodesmus subspicatus 1.01 mg/L	LC50: 96 h Lepomis macrochirus 41 mg/L static LC50: 96 h Pimephales promelas 59.8 mg/L static	-

Ethanol 64-17-5	-	LC50: 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/L static LC50: 96 h Pimephales promelas 100 mg/L static LC50: 96 h Pimephales promelas 13400 - 15100 mg/L flow-through	LC50: 48 h Daphnia magna 9268 - 14221 mg/L EC50: 48 h Daphnia magna 2 mg/L Static
--------------------	---	---	---

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Discharge into the environment must be avoided

Chemical Name	log Pow
Ethanol 64-17-5	-0.32

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to the discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State water board or Regional office of the EPA.

13. Disposal Considerations

13.1 Waste treatment methods

Disposal of wastes: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes can not be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

70385-6 (containers equal to or less than 5 gallons) Container Disposal: Non-refillable container. Do Not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

70385-6 for container over 5 gallons Container Disposal: Non-refillable container. Do Not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local, by burning. If burned, stay out of smoke.

Contaminated packaging: Do not reuse container.

14. Transport Information

DOT	Not regulated
MEX	Not regulated
IMDG	Not regulated
IATA	Not regulated

15. Regulatory information

15.1 International Inventories

TSCA	Complies
DSL	Complies
EINECS/ELINCS	-
ENCS	-
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2 U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

15.3 Pesticide Information

EPA Pesticide Registration Number 70385-6
EPA Statement
 This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:
EPA Pesticide Label
DANGER Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, protective clothing and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

15.4 U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Ethanol - 64-17-5	Carcinogen Developmental
Formaldehyde - 50-00-0	Carcinogen
Benzene - 71-43-2	Carcinogen Developmental Male Reproductive
Toluene - 108-88-3	Developmental Female Reproductive
Propylene Oxide - 75-56-9	Carcinogen
N-Nitrosodimethylamine - 62-75-9	Carcinogen
Ethylene oxide - 75-21-8	Carcinogen Developmental

	Female Reproductive Male Reproductive
Acetaldehyde - 75-07-0	Carcinogen

16. Other information

NFPA	Health Hazard 3	Flammability 0	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 3	Flammability 0	Physical Hazard 0	Personal protection X

Legend:

- ACGIH (American Conference of Governmental Industrial Hygienists)
- Ceiling (C)
- DOT (Department of Transportation)
- EPA (Environmental Protection Agency)
- IARC (International Agency for Research on Cancer)
- International Air Transport Association (IATA)
- International Maritime Dangerous Goods (IMDG)
- NIOSH (National Institute for Occupational Safety and Health)
- NTP (National Toxicology Program)
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)
- PEL (Permissible Exposure Limit)
- Reportable Quantity (RQ)
- Skin designation (S*)
- STEL (Short Term Exposure Limit)
- TLV® (Threshold Limit Value)
- TWA (time-weighted average)

Revision Date 04-Aug-2016

Revision Note
No information available

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet