

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

1.1 Product identifier

Product name Microban Disinfectant Spray Plus
Product code LG-F1041

1.2 Product Use Information

Recommended Use Disinfectant
Restrictions on use None known
EPA Registration Number 70385-5

1.3 Supplier Details

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

Flammable liquids	Category 3
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2.2 Label elements

Hazard pictograms



Signal Word

Warning

Hazard Statements

H226 - Flammable liquid and vapor

Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
P403 + P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to industrial incineration plant

2.3 Hazards not otherwise classified (HNOC)

None known

2.4 Other information

No information available

3. Composition/Information on Ingredients

Chemical Name	CAS-No	Weight %
ISOPROPYL ALCOHOL	67-63-0	5 - 10
o-phenyl phenol	90-43-7	< 1

4. First Aid Measures**4.1 Description of first-aid measures****First aid measures for different exposure routes**

General advice	Show this material safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.
Eye contact	Remove contact lenses, if present. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.
Skin contact	Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Use a mild soap if available. Call a physician if irritation develops or persists.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Consult a physician after significant exposure.
Ingestion	Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Recommendations for immediate medical care and/or special treatment

Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media	Use water spray, fog, Carbon dioxide (CO ₂), foam or dry chemical.
Unsuitable Extinguishing Media	High volume water jet.
Special Hazard	Hazardous decomposition products formed under fire conditions Flash back possible over considerable distance
Hazardous Combustion Products	No information available.
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

5.3 Advice for firefighters

Protective Equipment and Precautions 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

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Keep away from sources of ignition - No smoking. Use only in area provided with appropriate exhaust ventilation. Use only explosion-proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Electrical equipment should be protected to the appropriate standard.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep locked up or in an area accessible only to qualified or authorized persons. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in original container.

Incompatible Materials

None known based on information supplied.

8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits (OEL)

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
ISOPROPYL ALCOHOL 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³

TWA:
STEL:

Time weighted average
Short term exposure limit

8.2 Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin and body protection

Long sleeved clothing. Rubber or plastic apron.

Respiratory protection

Respirator with filter for organic vapor. If these are not sufficient to maintain concentrations of particulates and solvent vapor below the OEL, suitable respiratory protection must be worn.

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.

9. Physical and Chemical Properties

Physical and chemical properties

Physical state	Liquid
Appearance	milky
Color	transparent
Odor	Mint-like
Odor Threshold	No information available

Property	Values	Remarks • Methods
pH VALUE	6.5-7.5	
Boiling point/boiling range	100 °C / 212 °F	
Flash Point	39 °C / 102 °F	
Evaporation rate	Not Applicable	
Explosion Limits		
upper	no data available	
lower	no data available	
Vapor pressure	no data available	
Vapor density	no data available	
Relative density	0.97	
Water solubility	Soluble in water	
Partition coefficient: n-octanol/water	no data available	
Viscosity, kinematic	no data available	
Autoignition temperature	no data available	
Decomposition temperature	no data available	
Melting/freezing point	No data available	
Flammability (solid, gas)		

Other information

Volatile organic compounds (VOC) content 56.7 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

No information available

10.5 Incompatible Materials

Strong oxidizing agents

10.6 Hazardous Decomposition Products

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke

11. Toxicological Information

11.1 Product Information

Product Information	Product does not present an acute toxicity hazard based on known or supplied information at the Product level
Inhalation	There are no data available for this product.
Eye contact	There are no data available for this product.
Skin contact	There are no data available for this product.
Ingestion	There are no data available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
o-phenyl phenol 90-43-7	1049 mg/kg (Rat)	2000 mg/kg (Rat)	0.949 mg/L (Rat) 1 h
Ethylene oxide 75-21-8	72 mg/kg (Rat)	-	800 ppm (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Respiratory or skin sensitization No information available.

Germ Cell Mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
o-phenyl phenol		Group 3		
Ethylene oxide	A2	Group 1 Group 2A	Known	X

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive toxicity	No information available.
Specific target organ systemic toxicity (single exposure)	No information available.
Specific target organ systemic toxicity (repeated exposure)	No information available.
Target Organ Effects	Eyes, Respiratory system, Skin.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

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

12. Ecological Information

12.1 Toxicity

Ecotoxicity effects

Acute aquatic toxicity

Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Chemical Name	log Pow
ISOPROPYL ALCOHOL 67-63-0	0.05
o-phenyl phenol 90-43-7	3.18

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

Discharge into the environment must be avoided

13. Disposal Considerations

13.1 Waste Disposal Guidance

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

14. Transport Information

DOT

Not regulated (If shipped in NON BULK packaging by ground transport)

15. Regulatory Information

15.1 International Inventories

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

"-" - Not listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU 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

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
ISOPROPYL ALCOHOL	67-63-0	5 - 10	1.0

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ethyl Acetate	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethylene oxide	10 lb	10 lb	RQ 10 lb final RQ RQ 4.54 kg final RQ

15.3 U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
o-phenyl phenol - 90-43-7	Carcinogen
Ethylene oxide - 75-21-8	Carcinogen Developmental Female Reproductive Male Reproductive

U.S. State Right-to-Know Regulations

Component	New Jersey	Massachusetts	Pennsylvania
ISOPROPYL ALCOHOL	X	X	X

67-63-0 (5 - 10)			
o-phenyl phenol 90-43-7 (< 1)	X	X	X

16. Other Information

NFPA	Health Hazard 1	Flammability 2	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 1	Flammability 2	Physical Hazard 0	Personal protection X

Revision Date 24-Feb-2015

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