

Revision Date 06-Jul-2016 Version 1.02

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

1.1 Product identifier

Product name Microban X590
Product code LG-F1212

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

Recommended Use Antimicrobial

Restrictions on use Professional Use Only

EPA Registration Number 70385-3

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

| Serious eye damage/eye irritation | Category 2 |
|--|---------------------|
| Specific target organ toxicity (single exposure) | Category 3 - (H336) |
| Flammable liquids | Category 3 |

2.2 Label elements

Signal Word

Warning

Hazard Statements

Causes serious eye irritation May cause drowsiness or dizziness Flammable liquid and vapor



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/clothing and eye/face protection
Keep cool

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed 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 % |
|--------------------------------------|-----------|----------|
| Isopropyl alcohol | 67-63-0 | 20 - 30 |
| Polyethylene glycol octylpheny ether | 9036-19-5 | 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

Show this 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. If skin

irritation persists, call a physician.

Inhalation Immediate medical attention is required. Move to fresh air. If not breathing, give artificial

respiration.

Ingestion Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an

unconscious person. Get medical attention immediately. Give small amounts of water to

drink.

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

Water spray. Carbon dioxide (CO2). Dry powder. Alcohol-resistant foam.

Small Fires Dry chemical or CO₂.

Large Fires Alcohol type or all purpose foam.

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 Flash back possible over considerable distance

Hazardous Combustion Products No information available.

Explosion Data

Sensitivity to Mechanical Impact Yes. **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

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. 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. 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. 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.

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 ConditionsUse only in area provided with appropriate exhaust ventilation. Keep locked up or in an area

accessible only to qualified or authorized persons. 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. 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.

Materials to Avoid Strong oxidizing agents.

8. Exposure controls/personal protection

8.1 Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | British Columbia | Alberta | Quebec | Ontario TWAEV |
|-------------------|---------------|----------------------------|------------------|-----------------------------|------------------------------|---------------|
| Isopropyl alcohol | STEL: 400 ppm | TWA: 400 ppm | TWA: 200 ppm | TWA: 200 ppm | TWA: 400 ppm | TWA: 200 ppm |
| 67-63-0 | TWA: 200 ppm | TWA: 980 mg/m ³ | STEL: 400 ppm | TWA: 492 mg/m ³ | TWA: 985 mg/m ³ | STEL: 400 ppm |
| | | | | STEL: 400 ppm | STEL: 500 ppm | |
| | | | | STEL: 984 mg/m ³ | STEL: 1230 mg/m ³ | |

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. Rubber or plastic apron.

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
Appearance
Color
Color
Odor
Mint-like

Odor Threshold No information available

Property Values Remarks • Methods

pH 6.5-7.5

Melting/freezing point No information available

Boiling point/boiling range 102 °C / 216 °F **Flash Point** 25 °C / 77 °F

Evaporation rateNo information availableFlammability (solid, gas)No information available

Flammability (solid, gas)
Flammability Limits in Air

upper flammability limitNo information availablelower flammability limitNo information availableVapor pressureNo information availableVapor densityNo information available

Specific Gravity 0.9

Water solubility Soluble in water

Solubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, kinematicNo information availableViscosity, dynamicNo information available

Explosive properties

No information available
Oxidizing Properties

No information available

9.2 Other information

Volatile organic compounds (VOC) 2 lb/gal

content

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions Risk of ignition

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

Direct sources of heat.

10.5 Incompatible Materials

Strong oxidizing agents.

10.6 Hazardous Decomposition Products

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

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
 15,204.00 mg/kg

 Dermal LD50
 55,417.00 mg/kg

Numerical measures of toxicity: Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|------------------|-------------|---------------------------|
| Isopropyl alcohol 67-63-0 | , | | = 72600 mg/m³ (Rat) 4 h |
| Polyethylene glycol octylpheny ether 9036-19-5 | 1700 mg/kg (Rat) | - | - |

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

- The table below indicates whether each agency has listed any ingredient as a carcinogen Component Information
- · Contains a known or suspected carcinogen

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|------------------------------|-------|---------|-----|------|
| Isopropyl alcohol 67-63-0 | - | Group 3 | - | |

Reproductive toxicity

Product Information

• No information available

Component Information

• No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

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

5.17613 % of the mixture consists of components(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 |
|---|-------------------|----------------------------------|-----------------------------------|---|
| L | | | | |
| | Isopropyl alcohol | EC50: 96 h Desmodesmus | LC50: 96 h Pimephales promelas | EC50: 48 h Daphnia magna 13299 |
| | 67-63-0 | subspicatus 1000 mg/L EC50: 72 h | 9640 mg/L flow-through LC50: 96 h | mg/L |
| | | Desmodesmus subspicatus 1000 | Pimephales promelas 11130 mg/L | |
| | | mg/L | static LC50: 96 h Lepomis | |
| L | | _ | macrochirus 1400000 μg/L | |

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Discharge into the environment must be avoided

| bischarge into the chiviloniment mast be avoided | | | | |
|--|---------|--|--|--|
| Chemical Name | log Pow | | | |
| Isopropyl alcohol | 0.05 | | | |
| 67-63-0 | | | | |

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1 Waste treatment methods

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 Quarts and gallons ship as limited quantity.

UN/ID No 1993

Proper shipping name Flammable Liquid, N.O.S.

Hazard class 3 Packing Group III

MEX -

IMDG

Proper shipping name Flammable Liquid, N.O.S. (Isopropanol)

Hazard class 3 UN 1993 Packing Group III

IATA -

15. Regulatory information

15.1 International Inventories

TSCA -DSL -

EINECS/ELINCS Complies

ENCS IECSC KECL PICCS -

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 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 | SARA 313 - Threshold Values % | |
|-------------------|-------------------------------|--|
| Isopropyl alcohol | 1.0 | |
| 67-63-0 | | |

15.3 Pesticide Information

U.S. EPA Pesticide Information

EPA Pesticide Registration Number 70385-3

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

WARNING May be harmful if swallowed (inhaled or absorbed through the skin). Do not breathe vapors (dust or spray mist). Do not get in eyes, on skin or on clothing. May cause eye (and skin) irritation.

15.4 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 |

16. Other information

| <u>NFPA</u> | Health Hazard 2 | Flammability 2 | Instability 0 | Physical and chemical |
|-------------|-----------------|----------------|-------------------|-----------------------|
| | | | | hazards - |
| <u>HMIS</u> | Health Hazard 2 | Flammability 2 | 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 06-Jul-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