

SAFETY DATA SHEET

Issue Date 23-Mar-2015 Revision Date 24-Mar-2015 Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name MICROBAN X-590 INSTITUTIONAL SPRAY

Product Code LBD590XMLB-590
Customer Code 221552000, 22155300

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended Use Professional Disinfectant Uses advised against Use only as stated on label.

Details of the supplier of the safety data sheet

Manufactured For / Distributed By

ProRestore Products 1016 Greentree Rd. #115 Pittsburgh, PA 15220

800-932-3030

Emergency telephone number

24 Hour Emergency Phone Number 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Not classified
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 3

Label elements

Emergency Ov	erview	

Warning

Hazard statements

Causes serious eye irritation May cause drowsiness or dizziness

Flammable liquid and vapor



Precautionary Statements - Prevention

- 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/protective clothing/eye protection/face protection
- Keep cool

Precautionary Statements - Response

- Specific Treatment (See Section 4 on the SDS)

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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Drink plenty of water.

In case of fire: Use CO2, dry chemical, or foam for extinction.

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

Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
2-Propanol	67-63-0	10-30	*
Benzethonium Chloride	121-54-0	.1-1	*
2-Hydroxybiphenyl	90-43-7	.1-1	*

4. FIRST AID MEASURES

First aid measures

General advice

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

Skin Contact

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Wash off immediately with plenty of water. Immediate medical attention is not required.

Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes If

symptoms persist, call a physician Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least

15 minutes Keep eye wide open while rinsing

Inhalation Remove to fresh air. If symptoms persist, call a physician. Immediate medical attention is

not required. Move to fresh air in case of accidental inhalation of vapors.

Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT

induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give

anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms Any additional important symptoms and effects are described in Section 11: Toxicology

Information.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media</u> Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

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

Personal precautions, protective equipment and emergency procedures

Personal precautionsRemove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate

ventilation, especially in confined areas. Use personal protective equipment as required.

Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Pre

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert

absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks,

flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as

required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep

containers tightly closed in a cool, well-ventilated place.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGINTLY	OSHA PEL	NIOSH IDLH
2-Propanol	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m ³	TWA: 400 ppm
		(vacated) TWA: 400 ppm	TWA: 980 mg/m ³
		(vacated) TWA: 980 mg/m ³	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m ³
		(vacated) STEL: 1225 mg/m ³	- !

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d

962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers, Eyewash stations & Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protectionNo special technical protective measures are necessary.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Liquid Physical state Opaque **Appearance** Green Color Odor Pleasant

Odor threshold No Information available

Remarks • Method Property Values

6.5 - 7.5pН Specific Gravity .96 Viscosity Water Thin

Melting point/freezing point No Information available

Flash point 27 °C 77 °F

Boiling point / boiling range No Information available

Evaporation rate Same as water

Flammability (solid, gas) 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

Water solubility Miscible in water

Partition coefficient No Information available **Autoignition temperature** No Information available **Decomposition temperature** No Information available

Other Information

Density Lbs/Gal 8 25.29 **VOC Content (%)**

10. STABILITY AND REACTIVITY

Reactivity

No data available

Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known based on information supplied. Hazardous Decomposition Products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation No data available. Eve contact Severely irritating to eyes.

Skin Contact Prolonged contact may cause redness and irritation.

Ingestion May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Propanol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
67-63-0			,

MICROBAN X-590 INSTITUTIONAL SPRAY

Information on toxicological effects

Symptoms No Information available.

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

SensitizationNo Information available.Germ cell mutagenicityNo Information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Propanol 67-63-0	-	Group 3	-	X
2-Hydroxybiphenyl 90-43-7	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
Target organ effects
Aspiration hazard
No Information available.
No Information available.
Avoid repeated exposure.
EYES, Respiratory system, Skin.
No Information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Propanol	1000: 96 h Desmodesmus	9640: 96 h Pimephales promelas	13299: 48 h Daphnia magna mg/L
67-63-0	subspicatus mg/L EC50 1000: 72 h	mg/L LC50 flow-through 11130: 96	EC50
	Desmodesmus subspicatus mg/L	h Pimephales promelas mg/L LC50	
	EC50	static 1400000: 96 h Lepomis	
		macrochirus µg/L LC50	
2-Hydroxybiphenyl	0.85: 72 h Desmodesmus	3.4: 96 h Pimephales promelas	1 - 2.5: 48 h Daphnia magna mg/L
90-43-7	subspicatus mg/L EC50	mg/L LC50 flow-through 2.74: 96 h	EC50 Static
		Lepomis macrochirus mg/L LC50	
		2.75: 96 h Oncorhynchus mykiss	
		mg/L LC50 5.8: 96 h Poecilia	
		reticulata mg/L LC50 static	

Persistence and degradability No Information available.

<u>Bioaccumulation</u> No Information available.

Chemical Name Partition coefficient

MICROBAN X-590 INSTITUTIONAL SPRAY

2-Propanol 67-63-0	0.05
2-Hydroxybiphenyl	3.18

Other adverse effects

This pesticide is toxic to fish and aquatic invertebrates.

Do not discharge effuent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirments 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 effuent containing this product to sewer systems withour previously notifying the local sewage treatment plant authority. For quidance, conatct your State water board or Regional office of the EPA.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes 70385-4 Pesticide Disposal:

To avoid wastes, use all matieral in this container by application according to label directions. If wastes cannot be avoided, off remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

73085-4 Container Disposal:

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorites, by buring. If burned, stay out of smoke.

Do not reuse container.

Contaminated packaging US EPA Waste Number

D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

California Hazardous Waste Status
Toxic
Ignitable

14. TRANSPORT INFORMATION

Note: The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

U.S. Department of Transportation (USDOT)

4x1 Gallon Case Compound Cleaning Liquid, NOI, LTD QTY (LTDY)

Pails & Drums (<119 Gallons) UN1993, FLAMMABLE LIQUID, NOS, (CONTAINS ISOPROPANOL), 3, III

(HM-FS3A)

DOT Notes This SDS is a universal document for all package/container sizes. This product is a PG III and MAY

be transported under 49CFR as a "Limited Quantity or LTD QTY" in 4x1 gallon or smaller packages.

Refer to package markings and/or shipping paper for an accurate basic description.

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies

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

DSLINDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US 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 %
2-Propanol - 67-63-0	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Reactive Hazard	No
Sudden release of pressure hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains chemicals known to the state of California to cause cancer, or birth defects or other reproductive harm.

Chemical Name	California Proposition 65
2-Hydroxybiphenyl - 90-43-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Propanol 67-63-0	X	X	X
2-Hydroxybiphenyl 90-43-7	X	X	Х
Propylene Glycol 57-55-6	X	-	Х

U.S. EPA Label Information

EPA Pesticide Registration Number 70385-4

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.

Additional information No Information available.

16. OTHER INFORMATION

HMIS

Health hazards	Flammability	Physical hazards	Personal protection
2	3	0	В

Prepared By Regulatory Department

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The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet
