

# Safety Data Sheet

## 1. Identification

<b>Product Information.</b>	109162, 120455
<b>Product Name:</b>	Mediclean X-590; EPA Registration Number 70385-3
<b>Recommended Use.</b>	Disinfectant
<b>Uses advised against.</b>	No information available
<b>Supplier.</b>	Legend Brands ProRestore Products 15180 Josh Wilson Road Burlington, WA 98233 E-Mail: sds@legendbrands.com 800-932-3030
<b>Emergency telephone number.</b>	INFOTRAC 1-800-535-5053 (North America) +1-352-323-3500 (International)

## 2. Hazards Identification

### GHS Classification in accordance with 29 CFR 1910.1200

Eye Irritation, category 2A  
Flammable Liquid, category 3  
STOT, single exposure, category 3, NE

### GHS Pictograms



### Signal Word

Warning

### Unknown Acute Toxicity

1.0% of the mixture consists of ingredient(s) of unknown acute toxicity

### HAZARD STATEMENTS

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

### Precautionary Statements - Prevention.

Keep away from heat, sparks, open flames, hot surfaces. No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash face and hands and any exposed skin thoroughly after handling.  
Wear protective gloves, protective clothing, eye protection, face protection

### Precautionary Statements - Response.

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.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use CO<sub>2</sub> dry chemical or foam to extinguish.

#### **Precautionary Statements - Storage.**

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

#### **Precautionary Statements - Disposal.**

Dispose of contents in accordance with local, regional, national, international regulations.

### **3. Composition/Information on Ingredients**

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>
Isopropyl alcohol	67-63-0	25-50
ALCOHOLS, C12-15, ETHOXYLATED	68131-39-5	2.5-10
Diisobutylphenoxyethoxyethyl dimethyl	121-54-0	0.1-1.0
Distillates, petroleum, hydrotreated light	64742-47-8	0.1-1.0
N-Octyl Bicycloheptene Dicarboximide	113-48-4	0.1-1.0
o-phenyl phenol	90-43-7	0.1-1.0
Piperonyl Butoxide	51-03-6	0.1-1.0
Pyrethrins	8003-34-7	0.1-1.0

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

### **4. First-aid Measures**

#### **Description of first-aid measures.**

##### **General advice.**

Call a physician if irritation develops or persists. Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician. When symptoms persist or in all cases of doubt seek medical advice.

##### **Inhalation.**

Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

##### **Skin contact.**

If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. If symptoms persist, call a physician. May cause slight irritation. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If symptoms persist, call a doctor. Show this safety data sheet to the doctor in attendance.

##### **Eye contact.**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If symptoms persist, call a physician. Remove contact lenses, if present.

##### **Ingestion.**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Call a physician immediately. Gently wipe or rinse the inside of the mouth with water.

##### **Symptoms.**

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

##### **Notes to physician.**

Treat symptomatically.

### **5. Fire-fighting Measures**

#### **Extinguishing media.**

##### **Suitable extinguishing media.**

Water spray. Foam. Dry powder. Dry chemical. Alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO<sub>2</sub>).

##### **Extinguishing media which shall not be used for safety reasons.**

High volume water jet.

**Special hazards arising from the substance or mixture.**

Hazardous decomposition products formed under fire conditions. Flash back possible over considerable distance.

**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**

**Personal precautions, protective equipment and emergency procedures.**

**Personal precautions.**

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Do not breathe vapors or spray mist.

**Advice for emergency responders.**

Remove all sources of ignition. Use personal protection recommended in Section 8.

**Environmental precautions.**

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. See Section 12 for additional Ecological information.

**Methods and materials for containment and cleaning up.**

**Methods for Containment.**

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers. Use personal protective equipment. Remove all sources of ignition.

**Methods for cleaning up.**

Use personal protective equipment as required.

**Reference to other sections.**

See section 8 for more information.

**7. Handling and Storage**

**Conditions for safe storage, including any incompatibilities.**

**Advice on safe handling.**

Handle in accordance with good industrial hygiene and safety practice. Keep away from sources of ignition - No smoking.

**Hygiene measures.**

See section 7 for more information.

**Storage Conditions.**

Keep containers tightly closed in a cool, well-ventilated place. Store in original container.

**8. Exposure Controls/Personal Protection**

**Ingredients with Occupational Exposure Limits**

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TL STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Isopropyl alcohol	200 ppm	400 ppm	400 ppm	N.E.
Pyrethrins	5 mg/m <sup>3</sup>	N.E.	5 mg/m <sup>3</sup>	N.E.

TLV = Threshold Limit Value TWA = Time Weighted Average PEL = Permissible Exposure Limit STEL = Short-Term Exposure Limit N.E. = Not Established

**Engineering Measures.**

Showers, eyewash stations, and ventilation systems.

**Personal protective equipment.**

**Eye/Face Protection.**

Safety glasses with side-shields.

**Skin and body protection.**

Wear suitable protective clothing.

**Respiratory protection.**

In case of insufficient ventilation wear suitable respiratory equipment.

**9. Physical and chemical properties.****Information on basic physical and chemical properties.**

Physical state	Liquid
Appearance	Transparent
Color	colorless to straw
Odor	alcohol
Odor Threshold	No Information
pH	5.00
Melting/freezing point., °C (°F)	No Information
Flash Point., °C (°F)	25 (77.00)
Boiling point/boiling range., °C (°F)	102 - 516 (215.6 - 960.8)
Evaporation rate	No Information Available
Explosive properties.	No Information
Vapor pressure.	No Information
Vapor density.	No Information
Specific Gravity. (g/cm <sup>3</sup> )	0.956
Water solubility.	No Information
Partition coefficient.	No Information
Autoignition temperature., °C	No Information
Decomposition Temperature °C.	No Information
Viscosity, kinematic.	No Information

**Other information.**

Volatile organic compounds (VOC) content.	No Information
Density, lb/gal	7.804

**10. Stability and Reactivity****Reactivity.**

Stable under normal conditions.

**Chemical stability.**

Stable under recommended storage conditions.

**Possibility of hazardous reactions.**

None known based on information supplied.

**Conditions to Avoid.**

Strong oxidizing agents.

**Incompatible Materials.**

None known based on information supplied.

**Hazardous Decomposition Products.**

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**11. Toxicological Information****Information on toxicological effects.**

Acute toxicity.

**Product Information**

No Information

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

ATEmix (oral)	20,371.3 mg/kg
ATEmix (dermal)	51,464.5 mg/kg
ATEmix (inhalation - vapor)	3,328.44 mg/l

**Component Information.**

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
67-63-0	Isopropyl alcohol	5840 mg/kg ( Rat )	13,900 mg/kg ( Rabbit )	N.I.
68131-39-5	ALCOHOLS, C12-15, ETHOXYLATED	1600 mg/kg Rat	2500 mg/kg Rabbit	6 mg/l (Dust)
121-54-0	Diisobutylphenoxyethoxyethyl dimethyl	295 mg/kg Rat	N.I.	N.I.
113-48-4	N-Octyl Bicycloheptene Dicarboximide	2800 mg/kg Rat	470 mg/kg Rabbit	N.I.
90-43-7	o-phenyl phenol	2000 mg/kg Rat	>5000 mg/kg Rabbit	N.I.
51-03-6	Piperonyl Butoxide	4570 mg/kg Rat	1880 mg/kg Rabbit	N.I.
8003-34-7	Pyrethrins	200 mg/kg Rat	2060 mg/kg Rabbit	3.4 mg/L Rat (Vapor)

N.I. = No Information

**Skin corrosion/irritation.**

SKIN IRRITANT.

**Eye damage/irritation.**

No Information

**Respiratory or skin sensitization.**

No Information

**Ingestion.**

No Information

**Germ cell mutagenicity.**

No Information

**Carcinogenicity.**

No Information

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
90-43-7	o-phenyl phenol	IARC Group 3	-	-
51-03-6	Piperonyl Butoxide	IARC Group 3	-	-

**Reproductive toxicity.**

No Information

**Specific target organ systemic toxicity (single exposure).**

No Information

**Specific target organ systemic toxicity (repeated exposure).**

No Information

**Aspiration hazard.**

No Information

**Primary Route(s) of Entry**

No Information

## 12. Ecological Information

### Toxicity.

4.04% of the mixture consists of ingredient(s) of unknown aquatic toxicity

### Ecotoxicity effects.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Isopropyl alcohol 67-63-0	EC50 96 h <i>Desmodesmus subspicatus</i> >1000 mg/L, EC50 72 h <i>Desmodesmus subspicatus</i> >1000 mg/L	LC50 96 h <i>Pimephales promelas</i> 9640 mg/L, LC50 96 h <i>Pimephales promelas</i> 11130 mg/L, LC50 96 h <i>Lepomis macrochirus</i> >1400000 µg/L	EC50 48 h <i>Daphnia magna</i> 13299 mg/L
Distillates, petroleum, hydrotreated light 64742-47-8	-	LC50 96 h <i>Pimephales promelas</i> 45 mg/L, LC50 96 h <i>Lepomis macrochirus</i> 2.2 mg/L, LC50 96 h <i>Oncorhynchus mykiss</i> 2.4 mg/L	-
o-phenyl phenol 90-43-7	EC50 72 h <i>Desmodesmus subspicatus</i> 0.85 mg/L	LC50 96 h <i>Pimephales promelas</i> 3.4 mg/L, LC50 96 h <i>Lepomis macrochirus</i> 2.74 mg/L, LC50 96 h <i>Oncorhynchus mykiss</i> 2.75 mg/L, LC50 96 h <i>Poecilia reticulata</i> 5.8 mg/L	EC50 48 h <i>Daphnia magna</i> 1 - 2.5 mg/L
Piperonyl Butoxide 51-03-6	-	LC50 96 h <i>Oncorhynchus mykiss</i> 7.07 mg/L	-
Pyrethrins 8003-34-7	-	LC50 96 h <i>Oncorhynchus mykiss</i> 0.054 mg/L, LC50 96 h <i>Oncorhynchus mykiss</i> 0.0031 - 0.0038 mg/L, LC50 96 h <i>Oncorhynchus mykiss</i> 0.02 - 0.03 mg/L, LC50 96 h <i>Lepomis macrochirus</i> 0.0322 - 0.0472 mg/L, LC50 96 h <i>Lepomis macrochirus</i> 0.003 - 0.0046 mg/L, LC50 96 h <i>Lepomis macrochirus</i> 0.074 mg/L, LC50 96 h <i>Pimephales promelas</i> 0.0425 - 0.121 mg/L, LC50 96 h <i>Pimephales promelas</i> 0.224 - 0.458 mg/L	-

### Persistence and degradability.

No data are available on the product itself.

### Bioaccumulative potential.

Discharge into the environment must be avoided.

CAS-No.	Chemical Name	log POW
67-63-0	Isopropyl alcohol	0.05
121-54-0	Diisobutylphenoxyethoxyethyl dimethyl	1.08
113-48-4	N-Octyl Bicycloheptene Dicarboximide	3.61, 3.8
90-43-7	o-phenyl phenol	3.18
51-03-6	Piperonyl Butoxide	5

### Mobility in soil.

No information

### Other adverse effects.

No information

## 13. Disposal Considerations

### Waste Disposal Guidance.

Disposal of wastes: (All containers)

Pesticide Disposal: Wastes resulting from the use of the product may be disposed of on site or at an approved waste disposal facility. Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling, if available or puncture and dispose of in sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. Transport Information****DOT**

**Shipping Name:** Flammable Liquid, N.O.S. (Isopropanol)  
**Hazard Class:** 3  
**UN/NA Number:** 1993  
**Packing Group:** III  
**Additional Information:** Quarts and gallons ship as limited quantity.

**IMDG**

**Proper Shipping Name:** Flammable Liquid, N.O.S. (Isopropanol)  
**Hazard Class:** 3  
**UN Number:** 1993  
**Packing Group:** III

**IATA**

**Proper Shipping Name:** Flammable Liquid, N.O.S. (Isopropanol)  
**Hazard Class:** 3  
**Packing Group:** III  
**Additional Information:** In Cargo Airplane Max Net Qty/Pkge 60 L

**15. Regulatory Information****International Inventories:**

**TSCA** Complies  
**DSL** Complies  
**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** -  
**IECSC** Complies  
**KECI** -  
**PICCS** Complies  
**AIIC** Complies  
**NZIoC** Complies

**TCSI**

**TSCA** United States Toxic Substances Control Act Section 8(b) Inventory.  
**DSL** Canadian Domestic Substances List.  
**DSL/NDSL** Canadian Domestic Substances List/Canadian Non-Domestic Substances List  
**EINECS/ELINCS** European Inventory of Existing Chemical Substances/European List of Notified 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.  
**AIIC** Australian Inventory of Chemical Substances.  
**NZIoC** New Zealand Inventory of Chemicals.  
**TCSI** Taiwan Chemical Substance Inventory

**U.S. Federal Regulations:****SARA SECTION 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372: .

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Weight Percent</u>
Isopropyl alcohol	67-63-0	25-50

**TOXIC SUBSTANCES CONTROL ACT 12(b):**

This product does not contain any chemicals that are subject to the reporting requirements of TSCA 12(b).

**U.S. EPA PESTICIDE INFORMATION**

**EPA Pesticide Registration Number:** 70385-3

**EPA STATEMENT:** 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**

Additional Information - Sxn 15: No Information

**CALIFORNIA PROPOSITION 65 CARCINOGENS****WARNING**

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Chemical Name</u>	<u>CAS-No.</u>
o-phenyl phenol	90-43-7
Ethylene oxide	75-21-8
Acetaldehyde	75-07-0

**CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS****WARNING**

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Chemical Name</u>	<u>CAS-No.</u>
Ethylene oxide	75-21-8
Ethylene glycol	107-21-1

**16. Other Information**

<b>Revision Date:</b>	10/3/2024	<b>Supersedes Date:</b>	8/20/2024
<b>Reason for revision:</b>	Substance and/or Product Properties Changed in Section(s): 01 - Product Information 02 - Hazards Identification Revision Statement(s) Changed		
<b>Datasheet produced by:</b>	Regulatory Department		

**HMIS Ratings:**

<b>Health:</b>	2	<b>Flammability:</b>	3	<b>Physical Hazard:</b>	0	<b>Personal Protection:</b>	X
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**NFPA Ratings:**

<b>Health:</b>	2	<b>Flammability:</b>	3	<b>Instability:</b>	0	<b>Physical &amp; Chemical:</b>	-
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Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

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.

