

# 41 Microclean DISINFECTANT VIRUCIDE FUNGICIDE Fragrance Free Version

## Product description

Microclean is a quaternary type disinfectant designed to provide effective cleaning, deodorizing and disinfection. When used as directed Microclean is formulated to disinfect hard, non-porous surfaces such as floors, walls, metal surfaces and cabinets.

## Why it's a better cleaner

- The cleanworks®2 system dispenses it right every time.
- Super concentrated – economical to use.
- Cold water formula – energy saving.
- Canadian Government Approved – DIN #02247845

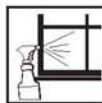
### Guarantee:

Octyl decyl dimethyl ammonium chloride.... 3.225%  
 Dioctyl dimethyl ammonium chloride..1.628%  
 Didecyl dimethyl ammonium chloride..1.628%  
 Alkyl (50% c14, 40% c12, 10% c16)  
 dimethyl benzyl ammonium chloride....4.339%

## How it cleans



1. Dispense #41 Microclean according to dilution chart.



2. Apply solution to surface to be cleaned.



3. Allow to remain wet for a period of 10 minutes.



4. Remove all excess liquid.

For heavily soiled areas a precleaning step is required.



## Dilution chart

DILUTE 1:128

Dispenses 516 litres of ready-to-use cleaner from the 2 x 2 litre concentrate case of cleanworks®2 Microclean.

## Where it cleans

Microclean is designed to provide effective cleaning, deodorizing and disinfection in hospitals, nursing homes, hotels, schools, restaurants, sports stadiums, food processing plants and other institutions where cleaning is of prime importance in controlling cross contamination from treated surfaces.

## Technical Data

Packaging.....2/2 Litre  
 Physical State.....Liquid  
 Color.....Pink  
 Odor.....Low  
 pH.....7.0  
 VOCs.....< 1%  
 Foam.....Ultra Low  
 Freeze/Thaw Stability.....Excellent  
 Solubility in Water.....Complete

cleanworks2 is a registered trademark of Maxim Technologies Inc.

# CLEANING MANAGEMENT SYSTEM

#41 Microclean - Disinfectant - Virucide - Fungicide Cleaner is designed to be used with the cleanworks® 2 Cleaning Management System. The system dispenses precisely diluted Microclean product with the touch of a button...ready to use in spray or wipe-on applications. Highly concentrated formula saves storage space and helps reduce disposal costs. cleanworks® 2 is simple, accurate and safer to use.

Maxim  
 Delta, B.C. V3M 6K8  
 Regina, SK. S4R 1T9  
 www.maxim-technologies.com

# 41

# Disinfectant - Virucide - Fungicide

# cleanworks 2 CLEANING MANAGEMENT SYSTEM

Maxim Technologies Inc.  
1607 Derwent Way  
Delta, BC V3M 6K8, Canada  
604-526-5655

## MATERIAL SAFETY DATA SHEET Page 1 of 4

### SECTION I PRODUCT IDENTIFICATION

**Product Trade Name:** 41 Microclean CW2  
**Description:** Cleaner disinfectant (1:128) for CW2 dispensing system  
**Canada DIN 02247845**  
**Manufacturer:** Maxim Technologies Inc.  
**Effective Date:** Dec. 29, 2014

### SECTION II COMPOSITION IDENTIFICATION

Ingredient	Approx. Wt.%	SARA-313	CAS Number	PEL	TLV
Di-(C8-10)-Alkyl Dimethyl Ammonium Chlorides	5.0-10.0		68424-95-3	N/A	N/A
Alkyl Dimethyl Benzyl Ammonium Chlorides	1.0-5.0		68424-85-1	N/A	N/A
Ethanol	1.0-5.0		64-17-5	N/A	N/A
Alcohol Ethoxylate	1.0-5.0		68439-46-3	N/A	N/A
Tetrasodium Salt of Ethylenediaminetetraacetic Acid	1.0-5.0		64-02-8	N/A	N/A

None of the other components in this mixture contribute significantly to the hazards associated with this component. All pertinent hazard information has been provided in this MSDS, per the requirements of the U.S. Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, and the Canadian Workplace Hazardous Materials Identification System Standards (CPR 4).

### SECTION III HAZARD IDENTIFICATION

**Route of Entry:** Skin, eyes, inhalation.  
**Eyes:** May cause burning sensation to eyes. May be corrosive to eyes.  
**Skin:** May cause burning sensation to skin. May be corrosive to skin.  
**Inhalation:** Inhaling vapors or mists may irritate mucous membranes. Prolonged inhalation exposure may cause headaches, nausea, etc.  
**Ingestion:** Ingestion may cause gastro-intestinal and abdominal discomfort. May be harmful or fatal if swallowed.  
**Effects of Chronic Exposure:** Prolonged or repeated exposure may cause skin irritation or dermatitis, respiratory disorder.  
**Effects of Acute Exposure to Product:** Product exposure may irritate skin or eyes.

### SECTION IV FIRST AID MEASURES

**Ingestion:** Give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician.  
**Skin Contact:** Wash with clean water and rinse well.  
**Eye Contact:** Flush with clean water for 15 minutes.  
**If irritation occurs or persists, get medical attention.**

### SECTION V FIRE FIGHTING MEASURES

**Extinguishing Media:** Dry chemical, foam, carbon dioxide, water fog.  
**Special Firefighting Procedures:** Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.  
**Unusual Fire / Explosion Hazards:** Vapors may form explosive mixture with air.

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### SECTION VI ACCIDENTAL RELEASE MEASURES

**Environmental Protection Precautions:** Do not release to the environment or water source.

**Steps To Be Taken In Case Material Is Released Or Spilled:** Wear protective equipment. Dike and contain large spills. Pump spills into an approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and out of natural waters. Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

### SECTION VII HANDLING AND STORAGE

**Precautions To Be Taken In Handling And Storage:** Use good industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.

### SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** Normally not required. However, if product is misted or sprayed, use a NIOSH/MSHA approved mist & organic vapor respirator.

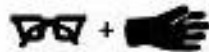
**Ventilation: Local Exhaust:** Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.

**Protective Gloves:** Natural or butyl rubber, nitrile or neoprene gloves.

**Eye Protection:** Chemical goggles, safety goggles or face shield.

**Other Protective Equipment:** Long sleeve coveralls. Eye wash recommended in the immediate work area.

HMIS Protection  
Group B



### SECTION IX PHYSICAL DATA

Appearance:	Clear pink liquid.
Odor:	Citrus/lavender scent.
pH:	6.0-7.0
Boiling Point:	>93°C
Melting Point:	N/A
Flash Point:	None to 100°C
Explosive Properties:	None.
Oxidizing Properties:	None.
Vapor Pressure:	N/D
Vapor Density (Water Vapor=1):	N/D
Specific Gravity (Water=1):	1.01@ 20°C
Evaporation Rate (Water=1):	N/D
Solubility in Water:	Soluble.

### SECTION X STABILITY AND REACTIVITY INFORMATION

Stability:	Stable under normal storage conditions.
Incompatibility:	Strong oxidizing and reducing agents, acids.
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	oxides of carbon and nitrogen, ammonia vapors.

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**SECTION XI      ECOLOGICAL INFORMATION**

<b>Ingredient</b>	<b>Ecotoxicity – Fish Species</b>	<b>Acute Crustaceans Toxicity</b>	<b>Ecotoxicity Freshwater Algae Data</b>
Di-(C8-10)-Alkyl Dimethyl Ammonium Chlorides	Toxic to aquatic organisms.	N/A	N/A
Alkyl Dimethyl Benzyl Ammonium Chlorides			

**SECTION XII      TOXICOLOGICAL PROPERTIES**

**Di-(C8-10)-Alkyl Dimethyl Ammonium Chlorides**  
**Alkyl Dimethyl Benzyl Ammonium Chlorides**

LD <sub>50</sub> (oral rat):	426 mg/kg
LC <sub>50</sub> (mouse):	20,000 ppm, 10hr
Ethanol	
LD <sub>50</sub> (oral rat):	7060 mg/kg
LD <sub>50</sub> (oral mouse):	919 mg/kg
<b>Alcohol Ethoxylate</b>	
LD <sub>50</sub> (oral rat):	1376 mg/kg
LD <sub>50</sub> (dermal rabbit):	>2 g/kg
<b>Threshold Limit Value:</b>	N/A
<b>Carcinogenicity:</b>	None known.
<b>Mutagenicity:</b>	None known.
<b>Reproductive Toxicity:</b>	None known.
<b>Teratogenicity:</b>	None known.
<b>Sensitization:</b>	None known.
<b>Irritancy of Product:</b>	May be corrosive to skin and eyes. Irritating to respiratory system.

**SECTION XIII      DISPOSAL CONSIDERATIONS**

**Recommended Waste Disposal Methods:** Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

**SECTION XIV      TRANSPORT INFORMATION**

This product is classified as UN1760, CORROSIVE LIQUID (quaternary ammonium chloride), Class 8, PG III for Transport purposes. Limited Quantity exemption for up to 5 kg containers.

<b>United Nations Number:</b>	None.
<b>ADR/RID Class:</b>	
<b>IATA Class:</b>	
<b>IMO Class:</b>	
<b>IMDG Code:</b>	
<b>Marine Pollutant classification:</b>	Classified as a Marine Pollutant.

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SECTION XV REGULATORY INFORMATION

HAZARD RATING INFORMATION

4=Extreme  
3=High  
2=Moderate  
1=Slight  
0=Insignificant

HMS

3	Health
1	Flammability
0	Reactivity
B	Personal

A=Gloves, B=Goggles & Gloves  
C=Goggles, Gloves and Apron

Canada

WHMIS classification - D2B, E

SECTION XVI OTHER INFORMATION

Toxic Substances Control Act: (USA)

SARA: (USA)

Section 302 -

Sections 311/312 -

Section 313 -

This product is on the 8(B) Inventory List (40 CFR 710).

This product does not contain materials listed in Appendix A or B as an Extremely Hazardous Substance. Materials listed in 29 CFR 1910, Subpart Z are identified in Section III. None are known or suspected carcinogens listed by the National Toxicology Program, International Agency for Research on Cancer, or OSHA.

Listed materials contained in this product are identified in Sections II or III of this MSDS.

USER'S RESPONSIBILITY

It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. **Maxim Technologies Inc.** will accept no liability for damages or loss incurred from the improper handling and use of this product.

PREPARATION INFORMATION

The information provided in the Material Safety Data Sheet has been obtained from current sources and is believed to be reliable.

PREPARED BY: Technical Service/Regulatory Division

LAST UPDATE: Dec. 29, 2014