

# 42 Ecofect DISINFECTANT CLEANER DEODORIZER

## Product description

Cross-contamination is of major housekeeping concern not only in hospitals, but also in schools, institutions and industry. **Ecofect** has been formulated to aid in the reduction of cross-contamination on treated surfaces. **Ecofect** is a one-step neutral disinfectant that is effective against a broad spectrum of bacteria when used as directed. When used as directed, **Ecofect** will deodorize surfaces in rest room and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.

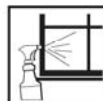
## Why it's a better cleaner

- The cleanworks®2 system dispenses it right every time
- EcoLogo™ Certified under CCD #166 Disinfectants and Disinfectant Cleaners
- Super concentrated – economical to use
- Cleans with cold water – energy saving
- Canadian Government Registered Disinfectant - DIN #0214996

## How it cleans



1. Dispense #42 **Ecofect** according to dilution chart.



2. Spray on surfaces to be disinfected.



3. Let stand 10 minutes.

4. Rinse and remove excess liquid. For heavily soiled areas a precleaning step is required.



## Dilution chart

DILUTE 1:64  
Dispenses 260 litres of ready-to-use cleaner from the 2 x 2 litre concentrate case of cleanworks®2 **Ecofect** Disinfectant Cleaner Deodorizer.

## Where it cleans

**Ecofect** is recommended for use in nursing homes, public rest rooms, institutions, schools, colleges, food processing plants, food storage areas, kitchens and restaurants.

## Technical Data

Packaging.....2/2 litre  
Physical state.....Liquid  
Color.....Dark orange  
Odor.....No added fragrance  
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

#42 Ecofect - Disinfectant Cleaner Deodorizer is designed to be used with the cleanworks®2 Cleaning Management System. The system dispenses precisely diluted odor control 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.

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42  
DISINFECTANT - CLEANER - DEODORIZER  
cleanworks®2  
CLEANING MANAGEMENT SYSTEM

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

**MATERIAL SAFETY DATA SHEET** Page 1 of 4

**SECTION I PRODUCT IDENTIFICATION**

**Product Trade Name:** 42 Ecofect CW2  
**Description:** Cleaner disinfectant for CW2 dispensing system  
**Canada DIN 02414996**  
**Manufacturer:** Maxim Technologies Inc.  
**Effective Date:** 1607 Derwent Way, Delta BC V4E 2T8  
Dec. 29, 2014

**SECTION II COMPOSITION IDENTIFICATION**

Ingredient	Approx. Wt. %	SARA-313	CAS Number
Didecyl Dimethyl Ammonium Chloride	2.0-5.0		7173-51-5
Ethanol	< 1.0		64-17-5

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, eye, inhalation, ingestion  
**Eyes:** Causes burns and may result in permanent injury to eyes including blindness.  
**Skin:** Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin. Exposures not promptly washed off may lead to toxic effects similar to ingestion. Harmful if absorbed through the skin.  
**Inhalation:** Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness. Harmful if inhaled.  
**Ingestion:** Ingestion can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory shock, convulsions and possibly death.  
**Effects of Chronic Exposure:** Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.  
**Effects of Acute Exposure to Product:** Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.

**SECTION IV FIRST AID MEASURES**

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.  
**Inhalation:** If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.  
**Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  
**Eye Contact:** Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.  
**If irritation occurs or persists, get medical attention.**

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### SECTION V FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	Dry chemical, foam, carbon dioxide, water fog or any other agent suitable for surrounding fire.
<b>Special Firefighting Procedures:</b>	Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.
<b>Unusual Fire / Explosion Hazards:</b>	Combustion products are toxic. Irritating and toxic gases or fumes may be released during a fire.

### SECTION VI ACCIDENTAL RELEASE MEASURES

#### Spill and Leak Procedures

<b>Emergency Action:</b>	Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
<b>Spill Cleanup:</b>	Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk.. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
<b>Large Spills:</b>	Dike far ahead of liquid spill for later disposal. Pump into containers for disposal.

### SECTION VII HANDLING AND STORAGE

**Precautions To Be Taken In Handling And Storage:** Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.

### SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

**Respiratory Protection:** If exposure limits are exceeded or if irritation is experienced, a NIOSH/MSNA approved respirator or an organic/vapor removing cartridge respirator protection device should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations.

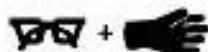
**Ventilation: Local Exhaust:** Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.

**Protective Gloves:** Use impervious gloves (rubber or neoprene).

**Eye Protection:** Wear chemical goggles. Use a face shield if splashing is possible.

**Other Protective Equipment:** Wear suitable protective clothing. Eye wash fountain and emergency showers are recommended.

HMIS Protection  
Group B



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**SECTION IX      PHYSICAL DATA**

<b>Appearance:</b>	Clear, orange coloured liquid
<b>Odor:</b>	Characteristic odor; no added fragrance
<b>pH:</b>	6.0-8.0
<b>Boiling Point:</b>	N/D
<b>Melting Point:</b>	N/D
<b>Flash Point:</b>	None when heated to 105°C - Tag Closed Group
<b>Explosive Properties:</b>	None
<b>Oxidizing Properties:</b>	None
<b>Vapor Pressure:</b>	N/D
<b>Vapor Density (Water Vapor=1):</b>	N/D
<b>Specific Gravity (Water=1):</b>	0.999 @ 20°C
<b>Evaporation Rate (Water=1):</b>	N/D
<b>Solubility in Water:</b>	Soluble

**SECTION X      STABILITY AND REACTIVITY INFORMATION**

<b>Stability:</b>	Stable under normal storage conditions.
<b>Incompatibility:</b>	Strong oxidizing agents (may result in fire.), reducing agents. Keep away from heat and strong oxidizing agents.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Hazardous Decomposition Products:</b>	Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.

**SECTION XI      ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	Very Toxic to aquatic organisms
<b>Environmental Fate:</b>	This product is biodegradable

**SECTION XII      TOXICOLOGICAL PROPERTIES**

<b>Carcinogenicity:</b>	No Carcinogenicity data available for this product. No ingredients listed as potential or known carcinogens.
<b>Acute Oral LD50:</b>	N/D
<b>Acute Dermal LD50:</b>	N/D
<b>Primary Skin:</b>	Corrosive. Category I
<b>Primary Eye:</b>	Corrosive. Category I

**SECTION XIII      DISPOSAL CONSIDERATIONS**

**Recommended Waste Disposal Methods:** Although not considered a hazardous waste, the discarding or disposal of this material should be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

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### SECTION XIV TRANSPORT INFORMATION

This product is classified as "Non-flammable, Non-hazardous, Not Restricted" for Transport purposes.

**United Nations Number:** UN 1903  
**DOT Hazard Class:** 8 Corrosive  
**DOT Proper Shipping Name:** Disinfectant Liquid, Corrosive, NOS (Quaternary Ammonium Compound), 8, UN 1903, PGIII  
**IMO Class:**  
**49 CFR §173.154 (Exemption):** This product can ship as a "Consumer Commodity" and reclassified as "ORM-D" if packaged in < 1.3 gallons (5.0 Liter) containers. (Non Hazardous)

### SECTION XV REGULATORY INFORMATION

#### HAZARD RATING INFORMATION

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

#### HMS

3	Health
0	Flammability
0	Reactivity
B	Personal

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

### SECTION XV REGULATORY INFORMATION - CONTINUED

Canada

E, D2B

### SECTION XVI OTHER INFORMATION

**SARA: (USA)** Section 302 - NA  
 Sections 311/312 - 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.  
 Section 313 - No ingredients listed.

### 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