

SECTION 1 IDENTIFICATION

Product Trade Name: Microclean
Recommended Use: Cleaner disinfectant (1:128) Canada DIN 02247845
Restrictions on Use: For Industrial and Institutional use only
Manufacturer: Maxim Technologies Inc.
 1607 Derwent Way, Delta, BC, V3M 6K8
 (604) 526-5655
Emergency Phone Number: Canada: Canutec 613-996-6666

SECTION 2 HAZARD IDENTIFICATION

Physical Hazards: None
Health Hazards: ACUTE TOXICITY, ORAL - Category 4
 ACUTE TOXICITY, INHALATION - Category 2
 SKIN CORROSION/ IRRITATION - Category 1
 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
 SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE- Category 2

Label Elements:



Signal word: Danger
Hazard Statement: H302 Harmful if swallowed.
 H330 Fatal if inhaled.
 H318 Causes serious eye damage.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention: P260 Do not breathe mist or vapour.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/ face protection.
 P284 Wear respiratory equipment.
Responses: P391 Collect spillage.
 P301+P330+P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.
 P303+P361+P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P363 Wash contaminated clothing before reuse.
Storage: P403 Store in well-ventilated place.
 P405 Store locked up.
Disposal: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 4 FIRST-AID MEASURES

Inhalation: Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method

if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if feeling unwell.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye Contact: Immediately flush with warm running water for at least 15 minutes, holding eyelids open during flushing. Remove contact lenses, if present and easy to do. If irritation persists, repeat flushing and obtain medical attention immediately.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

If irritation occurs or persists, get medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog, alcohol foam, or dry chemical.

Flammability: Not flammable.

Flash Point: > 93.3°C (PMCC)

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.

Hazardous Decomposition Products: Irritating and toxic gases or fumes may be released during a fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental Protection Precautions: Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

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.

SECTION 7 HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Store at temperatures below 30°C (86°F) and keep from freezing.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

OSHA (PEL): N/A

ACGIH TLV: N/A

Other exposure limit: N/A

Appropriate Engineering Controls: Good general ventilation.

Individual Protection Measures / Personal Protective Equipment:

Gloves: Non-permeable gloves (rubber, nitrile) recommended.

Masks/Goggles: Chemical goggles, safety goggles or face shield.

Respirator: If product is misted or sprayed, or used in a confined area, use a NIOSH/MSHA approved dust/mist respirator.

Apron: Not required for normal use of product.

Boots: Not required for normal use of product.

Other Protective Equipment: Eye wash, safety shower and full protective clothing recommended in the immediate work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear pink liquid
Odor:	Lavender scent
Odor threshold:	N/A
pH:	6.0–7.0
Melting point/Freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flash Point:	93.3°C
Evaporation Rate (Water=1):	N/A
Flammability:	Not flammable
Upper/Lower flammability or explosive limits:	None.
Vapor pressure:	N/A
Vapor density:	N/A
Relative density/Specific gravity (Water = 1):	1.010 @ 20°C
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	Not flammable
Decomposition temperature:	N/A
Viscosity:	N/A

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	N/A
Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	N/A
Conditions to avoid:	Contact with incompatible materials.
Incompatibility:	Strong oxidizing agents.
Hazardous Decomposition Products:	Oxides of carbon, oxides of nitrogen.

SECTION 11 TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, eyes, inhalation.
Symptoms:	Product exposure may irritate or cause burning sensation to skin and eyes. Inhaling vapors or mists may irritate mucous membranes. Prolonged inhalation exposure may cause headaches, nausea, etc. Ingestion may cause gastro-intestinal and abdominal discomfort.
Acute Toxicity:	Harmful if swallowed. Fatal if inhaled.
Carcinogenicity:	Not listed by NTP, IARC, OSHA, ACGIH.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Components

Tetra sodium ethylenediamine tetra acetic acid (Na₄ EDTA) (CAS 64-02-8)

Aquatic	Species	Test Results
Fish LC50	Bluegill (<i>Lepomis macrochirus</i>)	472 – 500 mg/l, 96 hours

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

Partition coefficient n-octanol / water (log K_{ow})

Ethanol	-0.31
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Mobility in soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORT INFORMATION

Canadian TDG:

UN Number:	UN1760
UN Proper Shipping Name:	CORROSIVE LIQUID, N.O.S. (QUATERNARY AMMONIUM CHLORIDE)
Transport Hazard Class(es):	8
Packing Group:	III

SECTION 15 REGULATORY INFORMATION
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HAZARD RATING INFORMATION

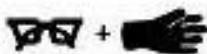
4=Extreme
 3=High
 2=Moderate
 1=Slight
 0=Insignificant

HMIS

3	Health
1	Flammability
0	Reactivity
B	Personal

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

**HMIS Protection
 Group B**



All pertinent hazard information has been provided in this SDS, 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 16 OTHER INFORMATION

Acronym List:

ACGIH	American Conference of Governmental Industrial Hygienists
CFR	Code of Federal Regulations
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration
N/A	Not available
NIOSH	The National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
UN	United Nations
WHMIS	Workplace Hazardous Materials Information System

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.

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

PREPARED BY: Technical Service/Regulatory Division

LAST UPDATE: May 11, 2017