

## SECTION 1 IDENTIFICATION

**Product Trade Name:** Attack  
**Recommended Use:** Cleaner disinfectant. (1:256) Canada DIN 02247846  
**Restrictions on Use:** For Industrial and Institutional use only  
**Manufacturer:** Maxim Chemical International Inc.  
 1607 Derwent Way, Delta, B.C. Canada V3M 6K8  
 (800) 663-9925  
**Emergency Phone Number/ 24-Hour Number:** Canada: Canutec 613-996-6666  
 U.S.A.: Chemtrec 800-424-9300

## SECTION 2 HAZARD IDENTIFICATION

**Physical Hazards:** FLAMMABLE LIQUIDS – Category 3  
**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:** H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H330 Fatal if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H370 May cause damage to organs.

**Precautionary Statements:**

**Prevention:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash hands and affected area thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.

**Responses:** P280 Wear protective gloves/protective clothing/ face protection.  
 P284 In case of inadequate ventilation, wear respiratory equipment.  
 P370 + P378 In case of fire: Use appropriate media to extinguish.  
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P321 Specific Treatment (see supplemental FIRST AID information on this label)  
 P330 Rinse mouth.  
 P301 + P330 + P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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:** P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.  
 P403 + P233 P 235 Store in well-ventilated place. Keep container tightly closed. Keep cool.  
 P405 Store locked up.

**Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredient</b>	<b>Approx. Wt.%</b>	<b>CAS Number</b>
Alkyl Dimethyl Benzyl Ammonium Chlorides (C12-16)	5-10	68424-85-1
Octyl decyl dimethyl ammonium chloride	5-10	32426-11-2
Didecyl dimethyl ammonium chloride	1-5	7173-51-5
Diocetyldimethylammonium chloride	1-5	5538-94-3
Ethanol	1-5	64-17-5
Alcohol Ethoxylate	1-5	68439-46-3
Tetrasodium Salt of Ethylenediaminetetraacetic Acid	1-5	64-02-8

### SECTION 4 FIRST-AID MEASURES

<b>Inhalation:</b>	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.
<b>Skin Contact:</b>	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.
<b>Eye Contact:</b>	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.
<b>Ingestion:</b>	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

<b>Extinguishing Media:</b>	Water fog, alcohol foam, or dry chemical. Do not use water jet as an extinguisher, as this will spread the fire.
<b>Flammability:</b>	Flammable liquid and vapor.
<b>Flash Point:</b>	54.4°C (PMCC)
<b>Special Firefighting Procedures:</b>	Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situations. Use water spray to cool all nearby fire exposed surfaces.
<b>Unusual Fire / Explosion Hazards:</b>	Vapors may form explosive mixture with air.
<b>Hazardous Decomposition Products:</b>	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:** Long sleeve coveralls. Eye wash recommended in the immediate work area.**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 red liquid

**Odor:**

None added

**Odor threshold:**

N/A

**pH:**

6.5 – 7.5

**Melting point/Freezing point:**

N/A

**Initial boiling point and boiling range:**

N/A

**Flash Point:**

54.4°C

**Evaporation Rate (Water=1):**

N/A

**Flammability:**

Flammable vapours and liquid.

**Upper/Lower flammability or explosive limits:**

None.

**Vapor pressure:**

N/A

**Vapor density:**

N/A

**Relative density/Specific gravity (Water = 1):**

1.01 @ 20°C

**Solubility(ies):**

Soluble in water

**Partition coefficient: n-octanol/water:**

N/A

**Auto-ignition temperature:**

N/A

**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:**

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatibility:**

Strong oxidizing agents. Anionic surfactants. Heat. Flame.

**Hazardous Decomposition Products:**

Oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Likely routes of exposure:**

Skin, eyes, inhalation, ingestion.

**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:**ATE<sub>mix</sub> (oral) 300–2000mg/kg, ATE<sub>mix</sub> (inhalation, mist) 0.05–0.5 mg/L**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 (Na<sub>4</sub> EDTA) (CAS 64-02-8)

**Aquatic**

**Species**

**Test Results**

Fish LC50

Bluegill (*Lepomis macrochirus*)

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<sub>ow</sub>)**

Ethanol

-0.31

**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:

UN2920

UN Proper Shipping Name:

CORROSIVE LIQUID, FLAMMABLE, N.O.S. (QUATERNARY AMMONIUM COMPOUND, (Ethanol)

Transport Hazard Class(es):

8(3)

Packing Group :

II

## SECTION 15 REGULATORY INFORMATION

### HAZARD RATING INFORMATION

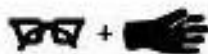
4=Extreme  
3=High  
2=Moderate  
1=Slight  
0=Insignificant

### HMIS

3	Health
3	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 Chemical International 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

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