

1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Patriot #16

**Use: Disinfectant Cleaner Concentrate
 Fragrance Free**

Code: PA16JSF

Date of MSDS: December 1, 2017
WHMIS: Not a WHMIS-controlled product
HMIS: Health 2
 Flammability 0
 Reactivity 0
 PPE B

**This product is designed to be mixed with water in a dilution control system at a standard 1:128 dilution.
 Emergency Telephone # CANUTEC 613-996-6666**

2 – HAZARD IDENTIFICATION

Irritancy of Product: mild
Physical State: liquid
EMERGENCY: **Keep out of reach of children. May be corrosive to eyes. Causes skin burns.
 May be harmful if swallowed.**

Principle Routes of Exposure: Eye contact. Skin contact. Inhalation.

Acute Effects

Eye Contact: Concentrate may cause irreversible damage.
Skin Contact: Concentrate may cause skin burn.
Inhalation: May cause irritation effects to nose, throat and respiratory tract system.
Ingestion: Harmful if swallowed.

See Toxicological information (section 11 and 3)

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Wt/Wt %	CAS #	LD50 (mg/kg)	LC50
Di-(C8-C10)-alkyl dimethyl ammonium chloride	1-5	68424-95-3	500 oral rat	not available
Alkyl dimethyl benzyl ammonium chloride(C12-C16)	1-5	68424-85-1	426 oral rat	not available
Tetrasodium ethylene diaminetetraacetate	1-5	64-02-8	1658 oral rat	not available

4 - FIRST AID MEASURES

Eye Contact: Immediately flush eyes with running water for 15-20 minutes, keeping eyelids open. Get medical attention immediately.
Skin Contact: Immediately flush with plenty of water for 15-20 minutes. If irritation persists, get medical attention.
Inhalation: If breathing is affected, remove to fresh air. If symptoms persist, get medical attention.
Ingestion: If swallowed, give 1 to 2 glasses of water if the patient is able to swallow. IMMEDIATELY CONTACT A PHYSICIAN POISON CENTER. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Note to Physician: If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, CO2, water spray or "alcohol" foam.
Specific Hazards: Although this product may be slightly below 93° C(200° F), it is an aqueous solution containing an alcohol and does not sustain combustion.
Specific Methods: No special methods required.
Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Conditions of Flammability: not flammable
UFL: not available
LFL: not available
Flash Point and Test Method: maybe slightly less than 93° C
Sensitivity to Static Discharge or Mechanical Impact: not applicable
Auto-Ignition Temperature: not applicable
Hazardous Combustion Products: oxides of carbon
Means of Extinction: treat for surrounding material & fire

6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use suitable protective equipment (Section 8). Keep out of reach of children.
Environmental Precautions: Keep container in a cool, well-ventilated area. Keep container tightly closed. Do not allow to enter drains or watercourses.
Methods for Cleaning Up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Water runoff can cause environmental damage.

7 – HANDLING & STORAGE

Handling: Avoid contact with skin, eyes and clothing. Do not taste or swallow. Avoid breathing vapors or mists.
Storage Requirements: Keep out reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed. Protect from freezing.

8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures to Reduce Exposure: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained

Personal Protective Equipment

Eye Protection: Chemical-splash goggles for handling concentrate.
Hand Protection: Chemical-resistant gloves for handling concentrate.
Skin & Body Protection: Wear suitable protective clothing. Use impervious gloves.
Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment. Appropriate NIOSH/MSHA respiratory protection must be used.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Ventilation: general ventilation normally adequate

9 - PHYSICAL & CHEMICAL PROPERTIES

Physical State: liquid	Viscosity: water thin	Vapour Pressure: < 1
Oil/Water Factor: not available	Appearance: clear green	pH: 6.5-7.5 (neutral)
Vapour Density: not available	Evaporation Rate: similar	Odour: perfume-free
Specific Gravity: 0.99-1.01	Odour Threshold: not available	Freezing Point (°C): < 0
Boiling Point (°C): 100	Flash Point (°C): > 93.9	

10 – STABILITY & REACTIVITY

Stability: stable
Polymerization: hazardous polymerization does not occur
Hazardous Decomposition Products: may yield to oxides of carbon & low molecular weight hydrocarbons
Conditions of Reactivity: avoid extreme hot and cold temperatures
Incompatible Substances: strong acids & alkalis, chlorinated products, other disinfectants
Storage Requirements: store in closed containers away from incompatible materials

11 – TOXICOLOGICAL INFORMATION

Acute Toxicity: Corrosive Oral LD50 estimated to be between 1000-2000 mg/kg Dermal LD50 estimated to be > 2000 mg/kg
Component Information: See Section 3
Chronic Toxicity: none known
Carcinogenic Effects: none known
Mutagenic Effects: none known
Reproductive Toxicity: none known
Target Organ Effects: none known
Synergistic Materials: none known
Sensitization: none known
Prolonged or Repeated Exposure - Skin: may cause drying, defatting or dermatitis

12 – ECOLOGICAL INFORMATION

Biodegradability: considered biodegradable inherently (no data available)
BOD/COD values: not available
Ecotoxicity: not available

13 – DISPOSAL CONSIDERATION

For Leaks or Spills: Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.
Waste Disposal: Review all Federal, Provincial & local regulations prior to disposal. Consult your local or regional authorities.

14 – TRANSPORT INFORMATION

Certain shipping modes or package sizes may have exceptions from the transport regulations.
UN CLASSIFICATION: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (contains quaternary ammonium compound)
Class 8 UN1903 PGIII
See shipping documents for specific transportation information.

15 – REGULATORY INFORMATION

WHMIS: Non-controlled (DIN registered product with Health Canada)
Canada Inventory: All components are listed or exempted.

16 – OTHER INFORMATION

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