SECTION 1 IDENTIFICATION

Product Trade Name: Quat-Shot
Recommended Use RTU disinfectant cleaner. Canada DIN 02243546
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: None
Health Hazards EYE DAMAGE/IRRITATION - Category 2A
Label Elements:

Signal word: Warning
Hazard Statement: H319 Causes serious eye irritation.

Precautionary Statements:
Prevention: P264 Wash hands and affected area thoroughly after handling.
P280 Wear eye protection.
Responses: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
Storage: Not regulated. Store in a cool, dry place. Keep container tightly closed. Keep out of reach of children.
Disposal: Not regulated. Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Approx. Wt.%	CAS Number
Diethylene Glycol Monobutyl Ether	5-10	112-34-5
Tetrasodium Ethyleznediamine Tetra Acetic Acid	1-5	64-02-8
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl Ammonium Chloride	0.1-1	85409-23-0
Alkyl Dimethyl Benzyl Ammonium Chloride (C12-18)	0.1-1	68391-01-5

SECTION 4 FIRST-AID MEASURES

Inhalation: Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Rinse skin. If irritation persists, obtain medical attention.
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: Do not induce vomiting. If the victim is fully conscious, give plenty of clean water to drink to dilute product. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing. Call a Physician.

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: None to 100^{0}C (TCC)
Special Firefighting Procedures: 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
Unusual Fire / Explosion Hazards:	Prolonged contact with reactive metals (i.e. aluminum, tin, zinc, etc.) May form flammable and explosive hydrogen gas in confined areas.
Hazardous Decomposition Products:	Carbon Monoxides/Dioxide.

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: Normally not required when foaming or spraying in ventilated areas. However, if product is misted or sprayed in tightly enclosed areas without ventilation, use a NIOSH/MSHA approved mist and organic vapor 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 green liquid
Odor:	Herbal
Odor threshold:	N/A
pH:	12.0-12.5
Melting point/Freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flash Point:	N/A
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):	1.015 @ 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 acids, alkalies and oxidizing agents.
Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen.

SECTION 11 TOXICOLOGICAL INFORMATION

Likely routes of exposure: Skin, eyes, inhalation.
Symptoms: Exposed individuals may experience eye tearing, redness, and discomfort.
Acute Toxicity: Not acute toxic.
Carcinogenicity: Not listed by NTP, IARC, OSHA, ACGIH.
Acute Toxicity Estimates:
Dermal
LD50 Rabbit >5g/kg
Oral
LD50 Rat >2.43 mg/l
Inhalation
LC50 Rat >5g/kg

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life. Harmful 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 (Lepomis macrochirus)	472 - 500 mg/l, 96 hours

Persistence and degradability: No data is available on the degradability of this product.
Partition coefficient n-octanol / water (log K_{ow})
Diethylene glycol monobutyl ether 0.56
Bioaccumulative potential: No data available.
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

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

Canadian TDG
UN Number: Not regulated.
UN Proper Shipping Name: Not regulated.
Transport Hazard Class(es): Not regulated.
Packing Group: Not regulated.

SECTION 15 REGULATORY INFORMATION

HAZARD RATING INFORMATION

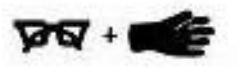
4=Extreme
3=High
2=Moderate
1=Slight
0=Insignificant

HMIS

3	Health
0	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 LAST UPDATE: September 29, 2018