

## FIGURE-1

SteriChelle™

### Material Safety Data

### Technical INFORMATION

STERICHELLE 120 CONCENTRATE & USE DILUTION

REV.2.1 0/96

### MATERIAL SAFETY DATA

#### PHYSICAL & CHEMICAL CHARACTERISTICS:

Appearance:	Clear yellow	Boiling Point:	210°F
Specific Gravity:	1.005	Vapor Pressure:	N/A
pH:	6.9	Vapor Density:	N/A
Evaporation Rate:	N/A	Solubility in Water:	Complete

#### REACTIVITY DATA:

Incompatibility: Anionic Materials, Strong Oxidizers	Stability:	Stable
Decomposition: None	Hazardous Polymerization:	None

#### FIRE & EXPLOSION HAZARD DATA

Flash Point:	>200°F	Flammable Limits:	N/A
Extinguishing Media:	Water	Special Fire Fighting Procedures:	None
Unusual Fire Fighting Procedures and Explosion Hazards:			None

#### HEALTH HAZARD DATA

##### CONCENTRATE

###### Routes of entry:

Inhalation:	N/A
Eye Contact:	Temporary Irritation & Redness
Skin Contact:	If Excessive & Prolonged May Cause Irritation & Redness
Ingestion:	If Excessive May Cause Irritation, Difficulty Breathing, Circulatory Shock

##### USE DILUTION (INCLUDING FOGGING PROCEDURE)

###### Routes of entry:

Inhalation:	If Excessive & Prolonged May Cause Mild Temporary Irritation
Eye Contact:	If Excessive & Prolonged May Cause Mild Temporary Irritation
Skin Contact:	None irritating
Ingestion:	If Excessive May Cause Mild Gastritis.

###### First Aid:

For Concentrate - Rinse skin & eyes with water for 15 minutes. If irritation persists seek medical care. If ingested drink large quantities of milk, egg white, gelatin or water and seek medical care. For Use Dilution - No Medical Care Is Required.

###### Chemical Listed As Carcinogen By.

OSHA:	NO
I.A.R.C. Monograph:	NO
National Toxicology Program:	NO

## PRECAUTIONS FOR SAFE HANDLING

### CONCENTRATE

Spills: For small spills rinse well with water to drain. For large spills contain and absorb with solid material and dispose in accordance with local laws.  
Waste Disposal: Dispose of waste and empty containers according to local laws.  
Handling/Storing: Store in a dry place. Avoid Freezing conditions and temperatures greater than 120°F.

USE DILUTION: Can be handled and treated the same a water.

## CONTROL MEASURES

### CONCENTRATE

Respiratory Protection:	None
Ventilation:	General Mechanical
Protective Gloves:	Rubber or Neoprene
Protective Clothing:	None
Eye Protection:	Goggles to shield from accidental splash

### USE DILUTION (INCLUDING FOGGING PROCEDURE)

Respiratory Protection:	Simple mask during togging only
Ventilation:	General Mechanical
Protective Gloves:	None
Protective Clothing:	None
Eye Protection:	None

## TECHNICAL INFORMATION

### COMPOSITION OF CONCENTRATE:

Active Ingredients consists of two (2) long-chain Alkly groups of Benzalkonium Chloride, which are considered much less toxic than those with a single such substitute, and Tributyl tin oxide (TBTO).

#### 11% Active Ingredients:

10% Benzalkonium Chloride - Barquat 425Z (alkyl dimethyl benzyl ammonium chloride and alkyl dimethyl ethyl benzyl ammonium chloride) 50%, Lonza, Inc.
1% TBTO - BioMet TBTO (tri butyl tin oxide) 95%, Elf Atochem, Inc.

**89% Inerts:** Inerts do not add to the biocidal activity but do give the formulation specific properties which makes this formulation superior to other QAC formulas. Information about the specific inerts must be treated as proprietary information and should only be shared with persons who will respect their proprietary nature.

### MODES OF ACTION:

1. Microbial Cell-Wall Destruction
2. Poisons Cytoplasmic Respiration
3. Poisons Enzyme Functions

### EFFICACY:

Broad Spectrum Biocidal Activity derived from (specific formulation) unique synergistic effects of the specific quaternary ammonium compounds in combination with esters of tributyltin ('OT/Q') blended with proprietary inerts (kills: bacteria, viruses, fungus, mold, mildew, algae & spores).