

Section 1. Chemical Product and Company Identification

ECI Part Number: LMO524 Date Prepared: 7/6/2015

Product Identity: QualiChemTM CI "Chloride Titrant"

Manufacture Name and Address: ECI Technology Inc.

60 Gordon Drive Totowa, NJ 07512

Emergency Contact(24hrs): CHEMTREC

Domestic: 800-424-9300 International: 703-527-3887

Telephone Number for Information: 973-890-1114

Section 2. Hazards Identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Classification:

Eye Irritation	-	Category	2A
Acute aquatic toxicity	-	Category	1
Chronic aquatic toxicity	-	Category	1

Signal Word: Warning





Hazard Statements:

Causes skin irritation

Causes serious eye irritation

May cause damage to organs through prolonged or repeated exposure

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects.

Precautionary Statements



Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Avoid release to the environment

Response

IF exposed or concerned: Get medical attention/advice

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing If eye irritation persists: Get medical advice/attention

Section 3: Composition / Information on Ingredients

Components	CAS Registry #	Concentration	
Silver nitrate	7761-88-8	1 – 2%	
DI Water	7732-18-5	98 – 99%	

Section 4. First Aid Measures - In All Cases, Seek Qualified Medical Help

EYE CONTACT:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention..

INHALATION:

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

SKIN CONTACT:

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

INGESTION:

Obtain medical attention.



Section 5. Fire Fighting Measures				
ELAMMADI E DOODEDTIEGO				
FLAMMABLE PROPERTIES:				
Substance is nonflammable; use agent most appropriate				
to extinguish surrounding fire				
EXTINGUISHING MEDIA:				
Use agent most appropriate to extinguish surrounding fire.				
FIRE & EXPLOSION HAZARDS: No specific fire or explosion hazards				
No specific file of explosion flazards				
FIRE FIGHTING INSTRUCTIONS:				
Use agent most appropriate to extinguish surrounding fire.				
FIRE FIGHTING EQUIPMENT:				
Use protective clothing and breathing equipment appropriate for the surrounding fire.				
Section 6. Accidental Release Measures				
Absorb with suitable material and dispose of in accordance with local regulations.				
Absorb with suitable material and dispose of in accordance with local regulations.				
Section 7. Handling and Storage				
Handling				
Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors, spray or mist. Avoid contact				
with skin, eyes and clothing.				
Storage				
Keep containers tightly closed in a dry, cool and well-ventilated place.				
Section 8. Exposure Controls / Personal Protection				
Francisco I inside				
Exposure Limits: Regulations:				
Component: ACGIH TLV OSHA PEL				
Silver nitrate TWA: 1 mg/m3 TWA: 1 mg/m3				
ENGINEERING CONTROLS:				
Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.				
To the transfer foodign				

RESPIRATORY PROTECTION:



Normal room ventilation is adequate

SKIN PROTECTION:

Chemical resistant gloves are recommended

EYE PROTECTION:

Safety glasses or goggles.

Section 9. Physical and Chemical Properties

Physical State Liquid

Appearance Colorless

Odor Odorless

Odor Threshold No information available

pH 5 - 7

Melting Point/Range Approx. 0

Boiling Point/Range Approx 100

Flash Point Not applicable

Evaporation Rate > 1 (Ether = 1.0)

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available

Lower No data available

Vapor Pressure 14 mmHg @ 20 °C

Vapor Density 0.7 (Air = 1.0)

Relative Density 1.0 - 1.1

Solubility Soluble in water

Autoignition Temperature No information available

Decomposition Temperature No information available

Viscosity No information available

Section 10. Stability and Reactivity

CHEMICAL STABILITY:

Stable under normal conditions of use and storage.

INCOMPATIBILITY:

Strong bases, ammonia, alcohols, strong reducing agents, magnesium

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition can lead to release of irritating gases and vapors

HAZARDOUS POLYMERIZATION:

Will not occur.



Section 11	. Toxico	logical	Information
------------	----------	---------	-------------

Toxicology Values

Component	Description	Route	Animal		Value
Silver nitrate	LD50	Oral	Rat	-	1173 mg/kg
Silver nitrate	LC50	-	Freshwater Fish (Leuciscus idus)	-	0.029mg/L/96h

Target Organs: Eyes, Skin

Chronic Effects/ Carcinogenicity: None

Teratology (Birth Defect) Information:

No information found

Reproduction Information:

No information found

Section 12. Ecological Information

ECOTOXICOLOGICAL INFORMATION:

Component:

Very toxic to aquatic life Silver nitrate

CHEMICAL FATE INFORMATION:

Component: Effect:

Silver nitrate This material is highly persistent in the aquatic environment, with half-life or greater than 200 days.

Section 13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME: Silver Nitrate



D.O.T. HAZARD CLASS: 5.1

U.N. NUMBER: UN1493

PACKING GROUP: ||

D.O.T. LABEL: Oxidizer

I.A.T.A. SHIPPING NAME: Silver Nitrate

I.A.T.A. HAZARD CLASS: 5.1

U.N. NUMBER: UN1493

PACKING GROUP: ||

Section 15. Regulatory Information (Not meant to be all inclusive)

U.S. Federal Regulations

TSCA Status:

All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

TSCA 12(b) Not listed SARA 313 Not listed

SARA 313 Listed (313c)
SARA 302 Extremely Hazardous Substances: Not listed
SARA 311/312 Hazardous Categorization: Not listed

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Section 16. Other Information

Disclaimer

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. ECI Technology, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The



conditions or methods of handling, storage, use and disposal of the products(s) described are beyond the control of ECI Technology, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT(S).