Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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1 Identification	
· Product identifier	
• Trade name: <u>Chloride T</u> • Product code: SN3417S	
<ul> <li>Recommended use and</li> <li>Recommended use: Lal</li> <li>Restrictions on use: No</li> </ul>	
<ul> <li>Details of the supplie</li> <li>Manufacturer/Supplier: AquaPhoenix Scientific, I 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com</li> <li>Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291</li> </ul>	
<ul> <li>Emergency telephone r ChemTel Inc. (800)255-3924 (North Ar +1 (813)248-0585 (Intern</li> </ul>	merica)
2 Hazard(s) identifica	tion
<sup>•</sup> Classification of the s	substance or mixture
Ox. Liq. 2 H272 May	y intensify fire; oxidizer.
Met. Corr.1 H290 May	y be corrosive to metals.
Skin Corr. 1B H314 Cau	uses severe skin burns and eye damage.
Eye Dam. 1 H318 Cau	uses serious eye damage.
<ul> <li>Label elements</li> <li>GHS label elements</li> <li>The product is classified</li> <li>Hazard pictograms:</li> </ul>	and labeled according to the Globally Harmonized System (GHS).
GHS03 GHS05	
<ul> <li>Signal word: Danger</li> <li>Hazard statements: H272 May intensify fire; c H290 May be corrosive to H314 Causes severe skin</li> <li>Precautionary statemer</li> </ul>	o metals. n burns and eye damage.

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	(Cont'd. of page
P220	Keep/Store away from clothing/combustible materials.
P221	Take any precaution to avoid mixing with combustibles.
P234	Keep only in original container.
P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P33	1 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin v water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: Water spray.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.
NFPA ratings (so	cale 0 - 4) The substance possesses oxidizing properties.

# 3 Composition/information on ingredients

#### • Chemical characterization: Mixtures

#### · Components:

7761-88-8 silver nitrate

🛞 Ox. Sol. 2, H272

Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318

7732-18-5 Water

#### · Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

## 4 First-aid measures

#### • Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

#### • After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate help for blistering or open wounds.

#### · After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

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68%

32%

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(Cont'd. of page 2) Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Strong caustic effect on skin and mucous membranes. Discoloration of skin. Gastric or intestinal disorders when indested. · Danger: Danger of gastric perforation. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed: Medical supervision for at least 48 hours. If medical advice is needed, have product container or label at hand. 5 Fire-fighting measures

## Extinguishing media

- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No relevant information available.

# · Special hazards arising from the substance or mixture

May intensify fire; oxidizer.

During heating or in case of fire poisonous gases are produced.

#### Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

## 6 Accidental release measures

### <sup>•</sup> Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Take any precaution to avoid mixing with combustibles.

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

#### Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

#### <sup>•</sup> Methods and material for containment and cleaning up

Use limestone to neutralize and/or absorb spill.

Substance/product is oxidizing when dry.

Clean the affected area carefully; suitable cleaners are:

#### Warm water

Send for recovery or disposal in suitable receptacles.

#### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## 7 Handling and storage

#### <sup>·</sup> Handling

· Precautions for safe handling:

Avoid splashes or spray in enclosed areas.

Prevent formation of aerosols.

Use only in well ventilated areas.

Take any precaution to avoid mixing with combustibles.

# Information about protection against explosions and fires:

May intensify fire; oxidizer.

Substance/product can reduce the ignition temperature of flammable substances.

#### • Conditions for safe storage, including any incompatibilities • Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Due to photo-sensitivity, store product in brown-glass receptacles.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

- Information about storage in one common storage facility:
- Store away from foodstuffs.

Store away from flammable substances.

Do not store together with acids.

Store away from metals.

#### Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• **Specific end use(s)** No relevant information available.

## 8 Exposure controls/personal protection

### <sup>·</sup> Control parameters

### Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### • Exposure controls

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• Engineering controls: Provide adequate ventilation.

• Breathing equipment: Use suitable respiratory protective device when high concentrations are present.

Protection of hands:



Protective gloves

· Material of gloves

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Nitrile rubber, NBR Neoprene gloves Laminated film gloves. Natural rubber, NR Sensibilization by the components in the glove materials is possible. • Not suitable are gloves made of the following materials: PVA gloves • Eye protection: Contact lenses should not be worn.



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- Limitation and supervision of exposure into the environment
- No relevant information available.

Information on basic physical	and chemical properties
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	>100 °C (>212 °F)
Flash point:	The product is not flammable.
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Oxidizing properties:	Oxidizer
Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	2.0-2.1 g/cm³ (16.69-17.52 lbs/gal)
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.

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		(Cont'd. of page
Water:	Fully miscible.	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	
Stability and reactivity		
• Thermal decomposition / cor No decomposition if used and		

Hazardous decomposition products

Under fire conditions only: Nitrogen oxides Toxic metal oxide smoke

# **11 Toxicological information**

#### · Information on toxicological effects

· Acute toxicity: Based on available data, the classification criteria are not met.

- · LD/LC50 values that are relevant for classification: None.
- Primary irritant effect:
- · On the skin: Strong caustic effect on skin and mucous membranes.
- · On the eye: Strong caustic effect.
- Sensitization: Based on available data, the classification criteria are not met.

### · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

#### NTP (National Toxicology Program):

None of the ingredients are listed.

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#### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

#### · Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity): Causes severe skin burns and eye damage.

- Repeated dose toxicity: No relevant information available.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

#### **12 Ecological information**

<sup>·</sup> Toxicity

- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- **Mobility in soil:** No relevant information available.
- Ecotoxical effects:
- · **Remark:** Very toxic for fish
- · Additional ecological information
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Very toxic for aquatic organisms

· Other adverse effects No relevant information available.

## **13 Disposal considerations**

#### <sup>•</sup> Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- <sup>·</sup> Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

## **14 Transport information**

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UN-Number DOT, ADR/RID/ADN, IMDG, IATA	UN3264
UN proper shipping name DOT ADR/RID/ADN	Corrosive liquid, acidic, inorganic, n.o.s. (silver nitrate CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (SILVER NITRATE), ENVIRONMENTALI HAZARDOUS
IMDG IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (SILVER NITRATE), MARINE POLLUTANT CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (SILVER NITRATE)
Transport hazard class(es)	
Class Label	8 8
ADR/RID/ADN	
Class Label	8 (C9) 8
IMDG	
Class Label	8 8
ΙΑΤΑ	
Class Label	8 8
Packing group DOT, ADR/RID/ADN, IMDG, IATA	II
Environmental hazards	Product contains environmentally hazardo
Marine pollutant:	substances: silver nitrate Symbol (fish and tree)

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<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Segregation groups</li> </ul>	Warning: Corrosive substances 80 F-A,S-B Acids
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
5 Regulatory information	
mixture · United States (USA)	
SARA	
SARA Section 302 (extremely hazardous substances	):
• SARA • Section 302 (extremely hazardous substances None of the ingredients are listed.	):
SARA     Section 302 (extremely hazardous substances     None of the ingredients are listed.     Section 313 (Specific toxic chemical listings):	):
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· EPA (Environmental Protection Agency):

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

None of the ingredients are listed.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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(Cont'd. of page 9) Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Ox. Liq. 2: Oxidizing liquids - Category 2 Ox. Sol. 2: Oxidizing solids - Category 2 Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 · Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com