


# MATERIAL SAFETY DATA SHEET

## Silver (I) Lactate

<b>NFPA</b> 	<b>HMIS</b> <table border="1"><tr><td>HEALTH</td><td style="text-align: center;">1</td></tr><tr><td>FLAMMABILITY</td><td style="text-align: center;">0</td></tr><tr><td>REACTIVITY</td><td style="text-align: center;">0</td></tr><tr><td>PERSONAL PROTECTION</td><td style="text-align: center;">J</td></tr></table>	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	1								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	J								

<b>1. Product And Company Identification</b>	
<b>Supplier</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com Web Site: colonialmetals.com	<b>Manufacturer</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  Company Contact: Joseph Fittos III Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: jfittos@colonialmetals.com Web Site: colonialmetals.com
<b>Supplier Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887	<b>Manufacturer Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887
Issue Date: 12/06/2007 Product Name: Silver (I) Lactate CAS Number: 80298-33-5 Chemical Formula: Ag(O <sub>2</sub> CCHOHCH <sub>3</sub> ) MSDS Number: 9017 Product Code: 9017	

<b>2. Composition/Information On Ingredients</b>			
	Ingredient Name	CAS Number	Percent Of Total Weight
	Silver (I) Lactate	80298-33-5	

<b>EMERGENCY OVERVIEW</b>
Harmful by inhalation, in contact with skin, and if swallowed. Irritating to eyes, respiratory system and skin. Target organ(s): Nerves

<b>Hazards Identification (Pictograms)</b> 
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## Silver (I) Lactate

### 3. Hazards Identification

#### Primary Routes(s) Of Entry

Inhalation: Likely  
Skin: Likely  
Ingestion: Likely

#### Eye Hazards

Irritation

#### Skin Hazards

Irritation. Harmful if absorbed through the skin.

#### Ingestion Hazards

Harmful if swallowed.

#### Inhalation Hazards

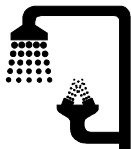
Irritating to mucous membranes and upper respiratory tract.

#### Conditions Aggravated By Exposure

May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble albuminate of silver).

To the best of our knowledge, the chemical, the physical, and toxicological properties of this compound have not been thoroughly investigated.

### First Aid (Pictograms)



### 4. First Aid Measures

#### Eye

Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician immediately.

#### Skin

Immediately wash with soap and copious amounts of water water. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

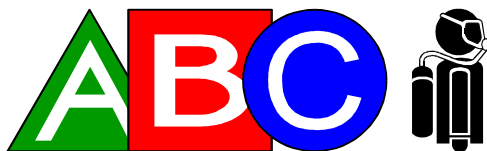
#### Ingestion

If swallowed wash out mouth with water if victim is conscious. Never give anything by mouth to an unconscious person. Contact a physician immediately.

#### Inhalation

Remove to fresh air immediately. If victim is not breathing provide artificial respiration. If breathing is difficult give oxygen. Contact a physician immediately.

### Fire Fighting (Pictograms)



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### 5. Fire Fighting Measures

**Flash Point Method:** NA  
**Autoignition Point:** NA °C  
**Flammability Class:** NA

#### Fire And Explosion Hazards

Use proper safety equipment. Can decompose to emit toxic fumes under fire conditions.

#### Extinguishing Media

Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.

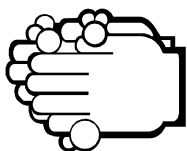
#### Fire Fighting Instructions

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

### 6. Accidental Release Measures

Sweep up and place in a sealed container. Avoid raising dust. Ventilate area and wash spill site after pick up is complete. Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### Handling Precautions

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

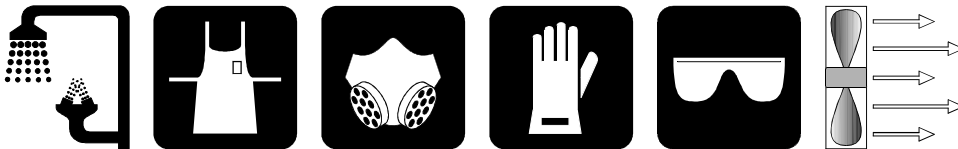
#### Storage Precautions

Keep container closed, stored in a cool, dry place. Material is light sensitive.

#### Work/Hygienic Practices

Always practice good personal hygiene after handling.

### Protective Clothing (Pictograms)



### 8. Exposure Controls/Personal Protection

#### Engineering Controls

Ventilation: Local Exhaust: Required in handling area  
Mechanical: Desirable to insure concentration of material below TLV/TWA levels  
Other: Closed Ventilation system (Laboratory Fume Hood)

Safety shower and eyewash

#### Eye/Face Protection

ANSI approved safety glasses/goggles

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### 8. Exposure Controls/Personal Protection - Continued

#### Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves).

#### Respiratory Protection

NIOSH approved chemical cartridge respirator for dust/mist/fume/radionuclide or self-contained breathing apparatus with full face shield.

#### Other/General Protection

Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.

### 9. Physical And Chemical Properties

#### Appearance

Slightly grey powder

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** 120-122 °C

**Molecular Weight:** 196.9

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

Sensitive to light

#### Incompatible Materials

Strong oxidizing agents

#### Hazardous Decomposition Products

Carbon monoxide, carbon dioxide

### 11. Toxicological Information

#### Subchronic (Target Organ Effects)

Target organ(s): Central nervous system

To the best of our knowledge the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

### 12. Ecological Information

No Data Available...

### 13. Disposal Considerations

Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation.

NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

### 14. Transport Information

#### Proper Shipping Name

Considered to be non-hazardous for transport

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### 15. Regulatory Information

#### U.S. Regulatory Information

Indication of Danger: Irritant

Risk of Statements: Irritating to eyes, respiratory system, and skin

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

#### SARA Section 313 Notification

This compound is subject to SARA Section 313 reporting requirements- silver compounds

#### Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

#### European Union (EU) Regulatory Information

Symbol of Danger: Xi

Indication of Danger: Irritant

R: 36/37/38

Risk of Statements: Irritating to eyes, respiratory system, and skin

S: 26 36

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

### 16. Other Information

#### NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

#### HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: J

#### Revision/Preparer Information

MSDS Preparer: Joseph J. Fittos III

MSDS Preparer Phone Number: 410-398-7200

#### Disclaimer

In compliance with the OSHA Hazard Communication Standard, 29 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.

It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.

Colonial Metals, Inc. makes no presentation as to the accuracy of the information in the MSDS. The information is believed to be correct; however, you (the customer), should perform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer.

Colonial Metals, Inc.