


# MATERIAL SAFETY DATA SHEET

## Silver (I) Carbonate

<b>NFPA</b> 	<b>HMIS</b> <table border="1"><tr><td>HEALTH</td><td style="text-align: center;">2</td></tr><tr><td>FLAMMABILITY</td><td style="text-align: center;">0</td></tr><tr><td>REACTIVITY</td><td style="text-align: center;">1</td></tr><tr><td>PERSONAL PROTECTION</td><td style="text-align: center;">J</td></tr></table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	1	PERSONAL PROTECTION	J
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	1								
PERSONAL PROTECTION	J								

### 1. Product And Company Identification

<b>Supplier</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  <b>Company Contact:</b> Michael Doss - Dir. of Regulatory Affairs <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> mdoss@colonialmetals.com <b>Web Site:</b> www.colonialmetals.com	<b>Manufacturer</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States  <b>Company Contact:</b> Michael Doss - Dir. of Regulatory Affairs <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> mdoss@colonialmetals.com <b>Web Site:</b> www.colonialmetals.com
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<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
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**Issue Date:** 07/31/2012

**Product Name:** Silver (I) Carbonate  
**Chemical Name:** Carbonic Acid, Silver (I) Salt/Silver Carbonate  
**CAS Number:** 534-16-7  
**Chemical Family:** Group 1B Metal Salt  
**Chemical Formula:** Ag<sub>2</sub>CO<sub>3</sub>  
**MSDS Number:** 9003  
**Product Code:** 9003

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Silver (I) Carbonate	534-16-7	99.9

### EMERGENCY OVERVIEW

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

### Hazards Identification (Pictograms)



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## Silver (I) Carbonate

### 3. Hazards Identification

**Primary Routes(s) Of Entry** - Eye: Likely

Inhalation: Likely

Skin: Likely

Ingestion: Likely

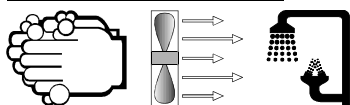
**Eye Hazards** - Irritation, highly from fine particles.

**Skin Hazards** - Irritation, avoid contact with skin; skin may darken (turn gray). May be harmful if absorbed through the skin.

**Ingestion Hazards** - May be harmful if swallowed.

**Inhalation Hazards** - Irritating to the upper respiratory tract and mucous membranes. May be harmful if inhaled.

### First Aid (Pictograms)



### 4. First Aid Measures

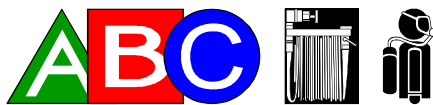
**Eye** - Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician immediately.

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

**Ingestion** - Wash out mouth with water provided victim is concious. Never give anything by mouth to an unconcious person. Contact a physician immediately.

**Inhalation** - Remove to fresh air immediately. If victim is not breathing perform artificial respiration. If breathing is difficult give oxygen. Contact a physician immediately.

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point:** NA °C

**Autoignition Point:** NA °C

**Flammability Class:** NA

**Fire And Explosion Hazards** - Use proper safety equipment. Emits toxic fumes under fire conditions.

**Extinguishing Media** - Use water spray, dry chemical powder, carbon dioxide or appropriate foam.

**Fire Fighting Instructions** - Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

### 6. Accidental Release Measures

Sweep or soak up and place in sealed container taking care to avoid dusting. Person protected with full face shield and proper respirator for dust. Ventilate and wash spill site after clean up is complete. Avoid release to the environment.

# MATERIAL SAFETY DATA SHEET

## Silver (I) Carbonate

### Handling & Storage (Pictograms)



### 7. Handling And Storage

**Handling And Storage Precautions** - Keep containers tightly closed. Wash thoroughly after handling.

**Handling Precautions** - Avoid breathing dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

**Storage Precautions** - Store in a tightly sealed container that does not let light penetrate.

**Work/Hygienic Practices** - Always use good personal hygiene after handling.

**Light Sensitive.**

#### Other Precautions

0.01 ppm high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 ppm same as above with full face piece; 1 ppm powdered air purifying respirator with high efficiency filter/type C supplied air respirator operated in pressure demand mode. Store in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from oxidizers.

### 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

**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** - Light yellow powder to greenish powder

**Odor** - Odorless

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** 428 °F 220 (decomposes) °C

**Boiling Point:** NA °C

**Specific Gravity:** 6.08

**Molecular Weight:** 275.77

**Vapor Pressure:** NA

**Vapor Density:** NA

**pH Factor:** NA

**Solubility:** slightly soluble in cold water

# MATERIAL SAFETY DATA SHEET

## Silver (I) Carbonate

### 9. Physical And Chemical Properties - Continued

Evaporation Rate: NA

### 10. Stability And Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions To Avoid (Stability)** - Elevated temperatures and exposure to light

**Incompatible Materials** - Acids

**Hazardous Decomposition Products** - Carbon monoxide, carbon dioxide, silver/ silver oxides

### 11. Toxicological Information

**Acute Studies** - Oral

Rat

3731 mg/kg

LD50

Remarks: Lungs, Thorax, or Respiration:Cyanosis.

Behavioral:Tetany. Gastrointestinal:Hypermotility, diarrhea.

Intraperitoneal

Rat

156 MG/KG

LD50

Oral

Mouse

2168 mg/kg

LD50

Remarks: Behavioral:Tetany. Lungs, Thorax, or

Respiration:Cyanosis. Gastrointestinal:Hypermotility, diarrhea.

Intraperitoneal

Mouse

39 MG/KG

LD50

Oral

Guinea pig

835 mg/kg

LD50

Remarks: Lungs, Thorax, or Respiration:Cyanosis.

Behavioral:Tetany. Gastrointestinal:Hypermotility, diarrhea.

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

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

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## Silver (I) Carbonate

### 12. Ecological Information

No Data Available...

### 13. Disposal Considerations

Place in sealed container. 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.

**RCRA Information** - EPA HW NO. D011 (Ag Cas NO.: 7440-22-4)

### 14. Transport Information

**Proper Shipping Name** - Environmentally Hazardous Substance, Solid, N.O.S.

**Hazard Class**

9

**DOT Identification Number**

3077

**DOT Shipping Label**

Environmentally Hazardous Substance, Solid, N.O.S.

**Packaging Requirements**

Group III

**Additional Shipping Paper Description** - IATA: Same as DOT. Always consult the IATA manual before shipping.

**DOT (Pictograms)**



**TDG - Canada (Pictograms)**



### 15. Regulatory Information

**U.S. Regulatory Information** - Listed in the TSCA inventory.

**SARA Section 313 Notification** - This product 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: Yes

**European Union (EU) Regulatory Information** - **Symbol of Danger:** Xi

**Indication of Danger:** Irritant.

**R: 36/37/38**

**Risk Statements:** Irritating to eyes, respiratory system and skin.

**S: 26-36**

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## Silver (I) Carbonate

### 15. Regulatory Information - Continued

**Safety Statements:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

#### Right-To-Know (Pictograms)



#### DSCL - Europe (Pictograms)



#### NFPA



#### HMIS

HEALTH	2
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	J

### 16. Other Information

#### Precautionary Label - Irritant

#### Revision/Preparer Information

MSDS Preparer: Michael W. Doss - Dir Reg Affairs

MSDS Preparer Phone Number: 410-398-7200

This MSDS Supersedes A Previous MSDS Dated: 08/21/2008

#### Disclaimer

In compliance with the OSHA Hazard Communication Standard, 2.9 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.

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