



# MATERIAL SAFETY DATA SHEET

## Silver (I) Bromate

<p><b>NFPA</b></p>	<p><b>HMIS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white;">HEALTH</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #ffff00; color: black;">REACTIVITY</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="background-color: #cccccc;">PERSONAL PROTECTION</td> <td style="text-align: center;">J</td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	3	PERSONAL PROTECTION	J
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	3								
PERSONAL PROTECTION	J								

### 1. Product And Company Identification

<p><b>Supplier</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p><b>Company Contact:</b> Wayne Sher <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> wsher@colonialmetals.com <b>Web Site:</b> colonialmetals.com</p>	<p><b>Manufacturer</b> Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States</p> <p><b>Company Contact:</b> Wayne Sher <b>Telephone Number:</b> 410-398-7200 <b>FAX Number:</b> 410-398-2918 <b>E-Mail:</b> wsher@colonialmetals.com <b>Web Site:</b> colonialmetals.com</p>
<p><b>Supplier Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>	<p><b>Manufacturer Emergency Contacts &amp; Phone Number</b> Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887</p>

**Issue Date:** 07/07/2006

**Product Name:** Silver (I) Bromate  
**Chemical Name:** Same as above  
**CAS Number:** 7783-89-3  
**Chemical Family:** NA  
**Chemical Formula:** AgBrO3  
**MSDS Number:** 9022  
**Product Code:** 9022

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	>	Percent Of Total Weight
Silver Bromate	7783-89-3	>	97

**EMERGENCY OVERVIEW**

Oxidizing. Contact with combustible material may cause fire.



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## Silver (I) Bromate

### Hazards Identification (Pictograms)



### 3. Hazards Identification

#### Primary Routes(s) Of Entry

**Eye:** Likely  
**Inhalation:** Likely  
**Skin:** Likely  
**Ingestion:** Likely

#### Eye Hazards

Can cause mild to moderate irritation of the eyes.

#### Skin Hazards

Can cause mild to moderate irritation of the skin.

#### Ingestion Hazards

May be harmful if swallowed. The toxicological effects of ingestion have not been fully investigated.

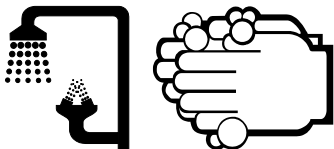
#### Inhalation Hazards

Irritating to mucous membranes and upper respiratory tract.

#### Conditions Aggravated By Overexposure

To the best of our knowledge, the chemical, the physical, and toxicological properties 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.

#### Skin

Flush area for 15 minutes with water and wash with soap and water. If discomfort occurs or persists, contact a physician. Remove contaminated clothing and shoes and wash before reuse.

#### Ingestion

Not expected to be a problem in industry. However if swallowed and discomfort occurs, contact a physician.

#### Inhalation

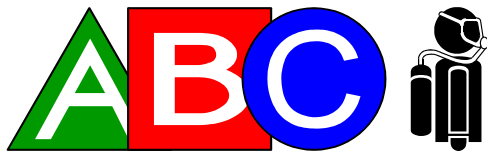
Remove to fresh air immediately. If discomfort occurs or persists, contact a physician.



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## Silver (I) Bromate

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point Method:** NA

**Flammability Class:** NA

#### Fire And Explosion Hazards

Use proper safety equipment; May accelerate combustion. Contact with other material may cause fire.

#### 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.

### Handling & Storage (Pictograms)



### 7. Handling And Storage

#### Handling And Storage Precautions

##### Handling

##### **Information for safe handling:**

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

##### **Storage**

No special requirements.

Store away from flammable substances.

Store away from reducing agents.

##### **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from exposure to light.

#### Handling Precautions

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.



# MATERIAL SAFETY DATA SHEET

## Silver (I) Bromate

### 7. Handling And Storage - Continued

#### Handling Precautions - Continued

Ensure good ventilation at the workplace.  
Protect from exposure to light.

#### Storage Precautions

Store away from flammable substances.  
Store away from reducing agents.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.  
Protect from exposure to light.

#### Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly after handling. Wash thoroughly with soap and water after handling.

#### **Information about protection against explosions and fires:**

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

This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

#### Protective Clothing (Pictograms)



### 8. Exposure Controls/Personal Protection

#### Engineering Controls

##### **Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

#### Eye/Face Protection

ANSI approved safety glasses/goggles

#### Skin Protection

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

#### Respiratory Protection

Government approved respirator

#### Other/General Protection

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



# MATERIAL SAFETY DATA SHEET

## Silver (I) Bromate

### 9. Physical And Chemical Properties

#### Appearance

Powder

**Chemical Type:** Mixture

**Physical State:** Solid

**Specific Gravity:** 5.206 g/cm<sup>3</sup> at 20 degree C

**Molecular Weight:** 235.78

**Solubility:** Insoluble

### 10. Stability And Reactivity

**Stability:** Stable under normal conditions and temperature

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

Decomposition will not occur if used and stored according to specifications.

#### Incompatible Materials

Strong oxidizing agents, sulfur, tellurium, organic materials, finely powdered metals

#### Hazardous Decomposition Products

Metal oxide fume

Hydrogen bromide

#### Conditions To Avoid (Polymerization)

Will not occur.

### 11. Toxicological Information

#### Eye Effects

Irritating to the eyes.

#### Skin Effects

Irritating to the skin and mucous membranes.

#### Subchronic (Target Organ Effects)

Absorption of silver compounds by ingestion, inhalation or through broken skin can cause argyria, a permanent bluish-grey discoloration of the skin, conjunctiva and mucous membranes.

#### Miscellaneous Toxicological Information

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.



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## Silver (I) Bromate

<b>12. Ecological Information</b> No Data Available...
<b>13. Disposal Considerations</b> 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.
<b>14. Transport Information</b> <u>Proper Shipping Name</u> Bromates, Inorganic N.O.S. (contains silver bromate)  <u>Hazard Class</u> 5.1  <u>Secondary Hazard Class</u> NA  <u>DOT Identification Number</u> 1450  <u>DOT Shipping Label</u> Oxidizer  <u>Freight Class</u> See 49 CFR  <u>Packaging Exceptions</u> See 49 CFR  <u>Packaging Requirements</u> Packaging Group II.  <u>Additional Shipping Paper Description</u> <b>Air transport ICAO-TI and IATA-DGR:</b> ICAO/IATA Class: 5.1 UN/ID Number: 1450 Label 5.1 Packaging group: II Proper shipping name: BROMATES, INORGANIC, N.O.S.  <b>Land transport ADR/RID (cross-border)</b> ADR/RID class: 5.1 Oxidizing substances Danger code (Kemler): 50 UN-Number: 1450 Packaging group: II Description of goods: 1450 BROMATES, INORGANIC, N.O.S. (Silver bromate)  <b>Maritime transport IMDG:</b> IMDG Class: 5.1 UN Number: 1450



# MATERIAL SAFETY DATA SHEET

## Silver (I) Bromate

### 14. Transport Information - Continued

#### Additional Shipping Paper Description - Continued

Label 5.1

Packaging group: II

Proper shipping name: BROMATES, INORGANIC, N.O.S.

#### DOT (Pictograms)



#### TDG - Canada (Pictograms)



### 15. Regulatory Information

#### U.S. Regulatory Information

Indication of Danger: Oxidizing

Risk of Statements: Contact with combustible material may cause fire

Safety Statements: Keep away from combustible material. Wear suitable protective clothing

TSCA: Not TSCA listed. R&D purposes only.

#### SARA Section 313 Notification

This product does not require reporting per SARA Title 313.

#### 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.

#### European Union (EU) Regulatory Information

##### **Hazard symbols:**

Xi Irritant O Oxidizing

##### **Risk phrases:**

8 Contact with combustible material may cause fire.

36/37/38 Irritating to eyes, respiratory system and skin.

##### **Safety phrases:**

17 Keep away from combustible material.

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

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.



# MATERIAL SAFETY DATA SHEET

## Silver (I) Bromate

### 15. Regulatory Information - Continued

#### European Union (EU) Regulatory Information - Continued

#### WHMIS - Canada (Pictograms)



#### DSCL - Europe (Pictograms)



### 16. Other Information

#### NFPA Rating

Health: 2

Fire: 0

Reactivity: 3

Other: OX

#### HMIS Rating

Health: 2

Fire: 0

Reactivity: 3

Personal Protection: J

#### Revision/Preparer Information

MSDS Preparer: Wayne Sher

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.**