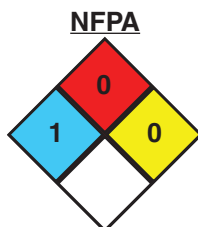


# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Bromide Hydrate



### HMIS

HEALTH	1
FLAMMABILITY	0
REACTIVITY	1
PERSONAL PROTECTION	J

### 1. Product And Company Identification

#### Supplier

DF Goldsmith Chemical and Metal  
909 Pitner Avenue  
Evanston, IL 60202, USA

Telephone Number: 847-869-7800

FAX Number: 847-869-2531

E-mail: goldchem@aol.com

Web Site: www.dfgoldsmith.com

#### Manufacturer

DF Goldsmith Chemical and Metal  
909 Pitner Avenue  
Evanston, IL 60202, USA

Telephone Number: 847-869-7800

FAX Number: 847-869-2531

E-mail: goldchem@aol.com

Web Site: www.dfgoldsmith.com

#### Supplier Emergency Contacts & Phone Number

Chemtrac: 800-424-9300

#### Supplier Emergency Contacts & Phone Number

Chemtrac: 800-424-9300

Issue Date: 06/01/2007

Product Name: Rhodium (III) Bromide Hydrate

CAS Number: 123333-87-9

Chemical Formula: RhBr<sub>3</sub>·xH<sub>2</sub>O

MSDS Number: 45-500

Product Code: 45-500

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Rhodium (III) Bromide Hydrate	123333-87-9	

### EMERGENCY OVERVIEW

Irritant

### 3. Hazards Identification

#### Primary Routes(s) Of Entry

Inhalation: Likely

Skin: Likely

Ingestion: Likely

#### Eye Hazards

Irritating to the eyes.

#### Skin Hazards

Irritating to the skin.

# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Bromide Hydrate

### 3. Hazards Identification (cont)

#### **Ingestion Hazards**

Not expected to be a problem in industry. May be irritating to the digestive system.

#### **Inhalation Hazards**

May cause irritation to respiratory system and mucous membranes.

#### **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**

Immediately wash with soap and water and rinse thoroughly. 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. Contact a physician immediately.

#### **Inhalation**

Remove to fresh air immediately. If required provide artificial respiration. Keep victim warm. Contact a physician immediately.

### Fire Fighting (Pictograms)



### 5. Fire Fighting Measures

**Flash Point Method:** NA

**Flammability Class:** NA

#### **Fire And Explosion Hazards**

Use proper safety equipment. Can emit metal oxide fumes and hydrogen bromide (HBr) 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.

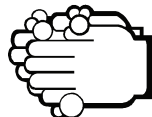
# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Bromide Hydrate

### 6. Accidental Release Measures

Sweep up and place in sealed container. Avoid raising dust. Ventilate area and wash spill site after pickup is complete.

### Handling and Storage (Pictograms)



### 7. Handling and Storage

#### Handling And Storage Precautions

Avoid contact with eyes, prolonged or repeated contact with skin. Avoid breathing dust. Use compatible chemical-resistant gloves. Wash hands thoroughly after handling.

#### Handling Precautions

Keep away from ignition sources.

#### Storage Precautions

Store in a tightly sealed container in a cool, dry place away from oxidizing agents.

#### Work/Hygienic Practices

Always use 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 eyebath

#### Eye/Face Protection

ANSI approved safety glasses/goggles

#### Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves)

#### Respiratory Protection

NIOSH approved chemical cartridge respiratory for particulates and dust 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.

# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Bromide Hydrate

### 9. Physical And Chemical Properties

#### Appearance

Dark red/ black crystalline solid

**Chemical Type:** Mixture

**Physical State:** Solid

**Melting Point:** NA °C

**Boiling Point:** NA °C

**Specific Gravity:** NA

**Molecular Weight:** 342.62

**Vapor Pressure:** NA

**Vapor Density:** NA

**pH Factor:** NA

**Solubility:** NA

**Evaporation Rate:** NA

### 10. Stability And Reactivity

**Stability :** Stable

**Hazardous Polymerization:** Will not occur

#### Conditions To Avoid (Stability)

Decomposition should not occur if stored properly.

#### Incompatible Materials

Oxidizing agents

#### Hazardous Decomposition Products

Metal oxide fumes, hydrogen bromide.

#### Conditions To Avoid (Polymerization)

Will not occur.

### 11. Toxicological Information

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

None

# MATERIAL SAFETY DATA SHEET

## Rhodium (III) Bromide Hydrate

### 15. Regulatory Information

#### U.S. Regulatory Information

All components of this compound are listed on the TSCA inventory.

#### 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)

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

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

S 37: Wear suitable gloves.

#### DSCL - Europe



### 16. Other Information

#### NFPA Rating

Health: 1

Fire: 0

Reactivity: 0

#### HMIS Rating

Health: 1

Fire: 0

Reactivity: 1

Personal Protection: J

#### Revision/Preparer Information

MSDS Preparer: DF Goldsmith Chemical and Metal

MSDS Preparer Phone Number: 847-869-7800

#### 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.

DF Goldsmith Chemical and Metal 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.