CMI Product #4040 Issued 03/21/17

# Safety Data Sheet 29 CFR 1910.1200

## **Section 1: Company and Product Identification**

**Product Name:** Bis(tetraethylammonium)hexachloroosmate (IV)

**Product Code: 4040** 

CAS #: 41119-82-8

Company: Colonial Metals, Inc.

Building 20 505 Blue Ball Road

Elkton, MD 21921 United States Company Contact: EHS Director Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: info@colonialmetals.com

E-Mail: info@colonialmetals.com
Web Site: www.colonialmetals.com

**Emergency Response:** For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC

+1 703-741-5970 / 1-800-424-9300 CCN 5252

## Section 2: Hazards Identification

GHS07

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Ru Rh Pd Ag Re Os Ir Pt Au

www.colonialmetals.com

# **Hazard Pictograms:**



Signal Word: Warning

Hazard Category: Skin corrosion/irritation Cat 2

Serious eye damage/eye irritation Cat 3

Acute tox, inh. Cat 4

Specific target organ tox, single exp. Cat 3 (resp irrit)

**Hazard Statements:** H315: Causes skin irritation

H320: Causes eye irritation H332: Harmful if inhaled

H335: May cause respiratory irritation

Precautionary

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

**Statements:** P264: Wash thoroughly after handling

201. Wash thoroughly arter handling

P271: Use only outdoors or in a well-ventilated area

 $P280: We ar protective \ gloves/protective \ clothing/eye \ protection/face \ protection$ 

P302+352: IF ON SKIN: Wash with soap and water

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses if present and easy to do – continue rinsing

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P321: Specific treatment (see ... on this label)

P332+313: If skin irritation occurs: Get medical advice/attention P337+313: If eye irritation persists get medical advice/attention

P362: Take off contaminated clothing and wash before reuse

P403+233: Store in a well ventilated place. Keep container tightly closed

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international rules.

Hazards not otherwise classified: Avoid breathing dust, fume, gas, mist, vapors, and spray.

## **Section 3: Composition / Information on Ingredients**

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Bis(tetraethylammonium)hexachloroosmate (IV)	Warning	41119-82-8	
Chemical Name: Bis(tetraethylammonium)hexachloroosmate (IV) Chemical Family: Platinum Group Metal Chemical Formula: [N(CH <sub>2</sub> CH <sub>3</sub> ) <sub>4</sub> ] <sub>2</sub> [O <sub>5</sub> Cl <sub>6</sub> ]	Skin Irrit.2;Eye Irrit.2A;STOT SE3;H315, H319,H335		

#### **Section 4: First Aid Measures**

General Info: Ensure proper ventilation.

**Notable Exposure** 

symptoms: Irritation to skin, eyes and areas of contact.

If ingested: Rinse mouth. Seek immediate medical attention. Clear the airway and administer artificial

respiration if not breathing. If swallowed, do not induce vomiting unless directed to do so by

medical personnel. CONTACT A PHYSICIAN IMMEDIATELY

If inhaled: Remove the victim from the contaminated area while protecting yourself from exposure by wearing

an appropriate respirator. Put a similar respirator on the victim if possible.. If victim is not breathing provide artificial respiration. If breathing is difficult give oxygen. Get medical attention

immediately.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if

present and easy to do. CONTACT A PHYSICIAN if irritation/discomfort persists.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. CONTACT A

PHYSICIAN if irritation/discomfort persists.

Additional Info: Observe for any symptoms for several hours after exposure. Follow up with medical attention if

symptoms develop.

#### Section 5: Fire Fighting Measures

**General Info:** There are no fire or explosion hazards associated with this product

Extinguishing In case of fire, use water fog, dry chemical, CO2, or "alcohol" foam. Water may be ineffective.

Method / Equipment:

Hazardous Constituents associated with burning / combustion are to be considered toxic. Firefighters should

**Decomposition Info:** wear self-contained breathing apparatus and full protective gear.

#### Section 6: **Accidental Release Measures**

Personal precautions,

protective equipment \_\_\_\_\_ Use personal protective equipment. Avoid dust formation. Avoid breathing vapors or mist or gas.

and procedures: Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust

Containment Large Spills: Contain actively spilling material if safe and easy to do so, avoid generating dust.

Equipment and Collect material and dispose

**Procedures:** 

Small Spills: Sweep and collect to waste receptacles.

Cleanup Procedures: Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface is necessary, utilize vacuum cleaner, provided adequate ventilation is available. Ventilate

area and wash spill site after cleanup is complete

CMI Product #4040 Issued 03/21/17

#### **Section 7:** Handling and Storage

Safe Handling Avoid contact with skin and clothing. Avoid creating dust. Avoid contact with eyes. This product is

Precautions: hygroscopic

**Recommendations for** Store in original vented container.

Storage:

Other Precautions: Wash thoroughly with soap and water after handling

#### **Exposure Control / Personal Protection Section 8:**

General / Ventilation: Local Exhaust: Yes Engineering Mechanical: Yes **Controls:** Other: Fume Hood

Work Clothing: Protective work clothing which covers skin and prevents exposures. Lab coat/apron, flame and

chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.

Autoignition N/A

Temp:

Eye/face protection: Wear safety glasses with side shields or goggles or face shield.

Skin Protection: Wear chemical resistant gloves.

Respiratory NIOSH approved chemical cartridge respirator for acid gas and dust/mist/fume or self-contained

**Protection:** breathing apparatus with full face shield.

# **Section 9: Physical and Chemical Properties**

State: Solid	Melting Point: N/A	Freezing N/A Point:
Color: Orange	<b>Boiling</b> N/A <b>Point/Range:</b>	pH N/A
Molecular Wt. 663.45	Odor: N/A	Water N/A Solubility:
Evaporation rate: N/A	Flash Point: N/A	Packing N/A Density:
Upper Flam Limits: N/A	Lower Flam N/A Limits:	Vapor N/A Density:

Viscosity: N/A

## Section 10: Stability and Reactivity

General: This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources. Conditions To Avoid

(Stability): Exposure to moisture may affect product quality.

Incompatible Strong oxidizing agents

materials:

VOC Content N/A

(lbs/gal):

**Decomposition** Hazardous decomposition products formed under fire conditions - nitrogen oxides, (NOx),

products: Hydrogen Chloride

## **Section 11: Toxicological Information**

General Information: Acute Inhalation Effects: May cause respiratory tract irritation.

Toxicological To the best of our knowledge the chemical, physical, and toxicological properties of this compound

**Information** have not been thoroughly investigated.

(product):

General information: Product not tested. Toxicity - Aquatic And Terrestrial Plants

Aquatic toxicity: No specific data available. Do not allow large quantities of product to reach water, ground water,

water courses or sewer systems.

## **Section 13: Disposal Information**

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

Information OsO4 is a listed EPA Hazardous Waste - P087

**Container disposal:** Treat empty containers with extra care. Consult waste contractor.

### **Section 14: Transport Information**

DOT: Not dangerous goods
IMO/IMDG: Not dangerous goods
IATA: Not dangerous goods
OTHER: See IATA regulations

## **Section 15: Regulatory Information**

**TSCA:** Some of the ingredients of this product are listed under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. This product has been manufactured in full compliance with all TSCA regulations under 40 CFR 707.20

### SARA 313 SARA Section 313 Notification:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 302 Components:**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III. Section 302.

Canadian DSL: All ingredients of this product comply with the New Substances Notification requirements of the

Canadian Environmental Protection Act (CEPA).

European Union (EU) R20/21/22 - Harmful by inhalation, in contact with skin, and if swallowed.

**Regulatory** R24/25 - Toxic in contact with skin and if swallowed

**Information:** S7/9 - Keep container tightly closed and in a well-ventilated place

S24/25 - Avoid contact with skin and eyes

## **Section 16: Other Information**

NFPA RatingHMIS RatingPrecautionary Label:Health: 2Health: 2Warning

Fire: 0 Fire: 0
Reactivity: 0 Reactivity: 0
Other: Personal
Protection: C

Disclaimer: In compliance with the OSHA Hazard communication Standard, 2.9 C.F.R 1910.1200, we are providing you with a Safety Data Sheet (SDS) 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 representation as to the accuracy of the information in the SDS. 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 SDS to your customer.

Colonial Metals, Inc.

SDS Author: Colonial Metals Inc.- An Ames Goldsmith Company Version Date: 10/15/2019

US-SDS 4 of 4 8/18/2021