

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Platinum Powder Mesh -325

Product Code: 6058

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
 Web Site: www.colonialmetals.com



www.colonialmetals.com

Emergency Response: Supplier Emergency Contacts & Phone Number
 Chemtrec: 800-424-9300
 World Wide - Call COLLECT to U.S: 703-527-3887

Section 2: Hazards Identification

GHS07

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Hazard Pictograms:



Signal Word:

Warning

Hazard Category:

Acute tox, oral Cat 5
 Specific target organ tox, single exp. Cat 3 (resp irrit)
 Aspiration hazard Cat 2
 Skin corrosion/irritation Cat 2
 Serious eye damage/eye irritation Cat 2

Hazard Statements:

H303: May be harmful if swallowed
 H335: May cause respiratory irritation
 H305: May be harmful if swallowed and enters airways
 H315: Causes skin irritation
 H319: Causes serious eye irritation

Precautionary Statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 P264: Wash thoroughly after handling
 P270: Do not eat, drink or smoke when using this product
 P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P301+310: IF SWALLOWED: Immediately call a POISON CENTER or
 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 comfortable for breathing
 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
 P330: Rinse mouth
 P332+313: If skin irritation occurs: Get medical advice/attention
 P337+313: If eye irritation persists get medical advice/attention
 P361: Remove/Take off immediately all contaminated clothing
 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.
 To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid temperatures above 1500 C. Product incompatible with organic solvents. Highly flammable.

Hazards not Conditions Aggravated By Exposure

otherwise Can cause severe irritation of the respiratory system. Maintain housekeeping and personal hygiene to
classified: minimize exposure and prevent sensitization.

Conditions Aggravated By Overexposure

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

Section 3: Composition / Information on Ingredients

| Hazardous substance (name) | Hazard Category | CAS# | Weight % |
|---|-----------------|-----------|----------|
| Platinum | Irritant | 7440-06-4 | 99.9 |
| Chemical Name: Platinum Chemical Family: Platinum Group Metal Chemical Formula: Pt Synonyms: Platinum Metal, Platinum Powder, Platinum Flake, Platinum Black | | | |

Section 4: First Aid Measures

General Info: When consulting a physician, Show this safety data sheet to the doctor in attendance.

Notable Exposure Irritation to skin, eyes and areas of contact.

symptoms:

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.

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. Get medical attention.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops or persists.

Skin contact: Take off immediately all contaminated clothing. Rinse with water thoroughly. Get medical advice if irritation develops or 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: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Emits toxic fumes under fire conditions

Fire And Explosion Finely divided platinum may ignite if contacted with flammable organic solvents. Powders may be

Hazards: subjected to self-heating if hydrogen or carbon monoxide are occluded.

Extinguishing Use water spray, foam, dry chemical, carbon dioxide, or medium for primary source.

Method /

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

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

Info: contained breathing apparatus and full protective clothing

Section 6: Accidental Release Measures

Personal Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all
precautions, ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate
protective protective equipment and clothing during clean-up. Avoid breathing dust/vapors. Ventilate
equipment and area if easy to do so. Contact local authorities if significant spillages cannot be contained. For personal
procedures: protection, see section 8 of the SDS.

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

Equipment and Personnel to be protected with full face shield and proper respirator. Collect material and dispose

Procedures:

Small Spills: Sweep and collect to waste receptacles.

Cleanup Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface

Procedures: is necessary, utilize vacuum cleaner, provided adequate ventilation is available.

Section 7: Handling and Storage

Safe Handling Do not handle until all safety precautions have been read and understood. Keep containers tightly

Precautions: closed Ensure adequate ventilation. Avoid breathing dust/vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling.

Recommendations Store in cool, dry area in a tightly closed sealed container, plastic or plastic liner, in

for Storage: a cool, well ventilated, dry area away from volatile acids and away from sources of ignition or flame.

Incompatibilities: Store away from organics and solvents. Refer to Section 10.

Other Precautions: .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 volatile acids.

Section 8: Exposure Control / Personal Protection

General / Ventilation: Local Exhaust: Required in handling area

Engineering Mechanical: Desirable to insure concentration of material below TLV/TWA levels

Controls: Other: Closed ventilation system with corrosive resistant materials

Work Clothing: Protective work clothing which covers skin and prevents exposures.

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

Skin Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Where risk assessment shows air-purifying respirators are appropriate use full-face particle respirator

Protection: type N((US) or type 92 (EN 143) respirator cartridges as a back up to engineering controls. If the respirators the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Additional Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene

Information: facilities for washing

Section 9: Physical and Chemical Properties

| | | |
|-----------------------------------|---|--|
| State: Solid | Melting Point: 3216 °F 1769 °C | Freezing Point: N/A |
| Color: Black Powder | Boiling Point/Range: 6872 °F 3800 °C | pH N/A |
| Molecular Wt. 195.1 | Odor: Slight Process Odor | Water Solubility: Insoluble |
| Evaporation rate: N/A | Flash Point: N/A | Part. Coeff (n-octanol/water) N/A |
| Upper Flam Limits: N/A | Lower Flam Limits: N/A | Vapor Pressure: N/A |
| VOC Content (lbs/gal): N/A | Specific Gravity: 21.45 | Autoignition Temp: 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. Temperatures above 1500°C

Incompatible materials: Organic solvents, strong oxidizing agents, alcohols

Decomposition products: Metal oxide fume, platinum oxide.

Reacts dangerously with organic substances and oxidizing agents.

Section 11: Toxicological Information

General Information: To the best of our knowledge the chemical, physical and toxicological effects of this compound have not been thoroughly investigated.

Toxicological Information (product): The TDL for RAT implant is 5250 mg/kg; For implant in mice, the TDL is 23000 mg/kg platinum in this form is practically nontoxic. Platinum in this form is non-allergenic but ionic platinum halogen complexes are allergenic.

Likely Routes of Exposure: Eye Contact
Skin Contact
Inhalation
Ingestion - possible, but considered unlikely.

Toxicological Information (contained substances)

Carcinogenicity or mutagenicity: No data available

Sensitization: Product is not expected to be a sensitizer.

Section 12: Ecological Information

General information: Product not tested.

Aquatic toxicity: No specific data available.

Degradation / Mobility info: No specific data available.

Bioaccumulative potential: No specific data available.

Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor.

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

Other considerations: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

Section 14: Transport Information

DOT: Considered Non-Hazardous for Transport

IMDG: Same as DOT. Always consult IATA manual before shipping

IATA: Same as DOT. Always consult IATA manual before shipping

Section 15: Regulatory Information

TSCA: This chemical is TSCA listed/registered.

SARA: Section 313 Notification

This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372

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.

Information: DSL: Yes NDSL: No

Section 16: Other Information

| <u>NFPA Rating</u> | <u>HMIS Rating</u> | <u>Precautionary Label</u> |
|--------------------|--------------------|----------------------------|
| Health: 1 | Health: 1 | Irritant |
| Fire: 2 | Fire: 2 | |
| Reactivity: 1 | Reactivity: 1 | |
| | 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 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.

SDS Author: Dr. Ernest Addo

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