

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Ammonium Perrhenate

Product Code: 1001

CAS #: 13598-65-7

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

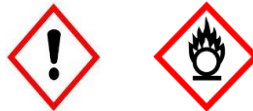
GHS07

GHS03

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Hazard Pictograms:



Signal Word:

Warning

Hazard Category:

Serious eye damage/eye irritation Cat 2
 Skin corrosion/irritation Cat 2
 Specific target organ tox, single exp. Cat 3 (resp irrit)
 Oxidizer Cat 2
 Specific target organ tox, single exp. Cat 3 (resp irrit)

Hazard Statements:

H319: Causes serious eye irritation
 H315: Causes skin irritation
 H335: May cause respiratory irritation
 H272: May intensify fire; oxidizer

Precautionary Statements:

P220: Keep/Store away from clothing/.../combustible materials
 P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
 P221: Take any precaution to avoid mixing with combustibles
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray
 P264: Wash thoroughly after handling
 P271: Use only outdoors or in a well-ventilated area
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P302+352: IF ON SKIN: Wash with soap and water
 P332+313: If skin irritation occurs: Get medical advice/attention
 P337+313: If eye irritation persists get medical advice/attention
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P403+233: Store in a well ventilated place. Keep container tightly closed
 P501: Dispose of contents/container in accordance with local/national/international rules.
 P405: Store locked up

Hazards not otherwise classified:

Not applicable, none known. The toxicological properties of this material have not been fully investigated. This product is considered non-hazardous when evaluated by criteria established in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Ammonium Perrhenate	Irritant/Oxidizer	13598-65-7	99 - 100
Product Name: Ammonium Perrhenate Chemical Name: Ammonium Perrhenate Chemical Family: Rhenium Complex Chemical Formula: H4NO4Re	Other hazards which do not result in classification: Lachrymator.		

Section 4: First Aid Measures

General Info: Ensure proper ventilation. Consult a physician. Show this SDS to the attending physician

Notable Exposure symptoms: 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 immediately.

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: Product is not flammable

Extinguishing Method / Equipment: In case of fire, use water fog, dry chemical, CO₂, or alcohol-resistance foam.

Method / Equipment:

Hazardous Decomposition Info: Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear.

In case of fire, can decompose to emit toxic and other hazardous decomposition products.

Section 6: Accidental Release Measures

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

Containment Equipment and Procedures: Large Spills: Contain actively spilling material if safe and easy to do so, avoid generating dust. Collect material and dispose. Ventilate area and wash spill site after pick up is complete.

Procedures:

Small Spills: Wash 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.

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.

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.

Recommendations Store in cool, dry area in a tightly closed product container away from sources of ignition or flame.

for Storage: Do not store directly on ground.

Incompatibilities: Store away from strong acids. Keep away from combustible material. Refer to Section 10.

Section 8: Exposure Control / Personal Protection

General / Local Exhaust: Required in handling area

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

Controls: Other: Closed Ventilation system – (Laboratory Fume Hood)

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

Eye/face protection: Wear safety glasses with side shields or goggles or face shield that conforms to EN 166 or NIOSH

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: Utilize organic vapor respirator if airborne levels are not maintained or if ventilation is inadequate.

Additional Information: Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash hands or exposed skin after using the product.

Section 9: Physical and Chemical Properties

State: crystalline	Melting Point: No data available	Freezing Point: N/A
Color: White	Boiling Point/Range: N/A	pH N/A
Molecular Wt. 268.24	Odor: None	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 Density: 3.97 g/ml @ 25C (77F)
VOC Content (lbs/gal): N/A	Viscosity: N/A	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.

Incompatible materials: Strong reducing agents, strong acids.

Decomposition products: Nitrogen oxides (NOx), rhenium oxides

Section 11: Toxicological Information

General Information: No data available, To the best of our knowledge, the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

Toxicological Information (product): Product has not been tested. Prolonged inhalation may be harmful to human health. Irritating in case of skin or eye contact. May be harmful if swallowed or in contact with skin.

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

Toxicological Information (contained substances)

Carcinogenicity or mutagenicity: According to IARC/ACGIH/NTP & OSHA, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen

Sensitization: Product is not expected to be a sensitizer.

Other Notes: Product is stable under recommended storage conditions. It is however incompatible with strong reducing agents, strong acids.

Section 12: Ecological Information

General information: Product not tested.

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

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: 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: Proper Shipping Name

Oxidizing solid, n.o.s. (Ammonium perrhenate)

Hazard Class

5.1

DOT Identification Number

1479

DOT Shipping Label

Oxidizing Solid (Ammonium perrhenate)

Packaging Requirements

PG II

EMS-No: F-A, S-Q

IMO/IMDG: Same as DOT. Always consult IATA regulations before shipping

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

OTHER: Inquire for further transport information.

Comments: None

Section 15: Regulatory Information

TSCA: All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

OSHA Hazards

Oxidizer, Irritant

SARA 313 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.

State Regulations: Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Ammonium perrhenate CAS-No. 13598-65-7 Revision Date

New Jersey Right To Know Components

Ammonium perrhenate CAS-No. 13598-65-7 Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian DSL: All ingredients of this product comply with New Substances Notification requirements of the Canadian Environmental Protection Act (CEPA).

European Union (EU) GHS Classification**Regulatory**

Oxidizing solids (Category 2)

Information:

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements

Signal Word: Danger

Hazard statement(s)

H272 May intensify fire; oxidizer.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s)

P220 Keep/Store away from clothing/ combustible materials.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Section 16: Other Information

NFPA Rating

Health: 2

Fire: 0

Reactivity: 2

Other: OX

HMIS Rating

Health: 2

Fire: 0

Reactivity: 2

Personal

Protection: J

Precautionary Labels

Oxidizer

Irritant

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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