

Safety Data Sheet
29 CFR 1910.1200

Section 1: Company and Product Identification**Product Name:** Potassium perrhenate**Product Code:** 1005**Cas #:** 10466-65-6

Company: Colonial Metals, Inc.
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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**Hazard Pictograms:****Signal Word:** Danger

Hazard Category: Oxidizing solids Cat. 2
Skin irritation Cat 2
Eye irritation Cat. 2A
Specific target organ toxicity- single exposure Cat 3, Respiratory system

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

Precautionary Statements: P221: Take any precaution to avoid mixing with combustibles.
P210: Keep away from heat/sparks/open flames/ hot surfaces. No smoking.
P220: Keep/Store away from clothing/.../combustible materials
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
P305+P351+P338: 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)
P370+378: In case of fire: Use ... for extinction
P403+ P233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container in accordance with local/national/international rules.
P332+313: If skin irritation occurs: Get medical advice/attention
To the best of our knowledge the chemical, physical, and toxicological properties have not been thoroughly investigated. Avoid high temperatures. Product incompatible with strong reducers, metals, and bases. May decompose oxidation products of Rhenium.
This product is corrosive and can cause burns

Hazards not otherwise classified:

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

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Potassium Perrhenate	Ox. Sol. 2; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H272, H315, H319, H335	10466-65-6	99
Chemical Name: Potassium Perrhenate Chemical Family: Rhenium Complex Chemical Formula: KReO ₄			

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.

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: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

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 may intensify fire.

Extinguishing Method / Equipment: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Hazardous Decomposition Info: Constituents associated with burning / combustion are to be considered toxic (potassium oxides or rhenium oxides). 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: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Containment Equipment and Procedures: Pick up mechanically.

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

Section 7:**Handling and Storage**

Safe Handling Precautions: Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.

Other Precautions: Substance/ product can reduce the ignition temperature of flammable substances. This substance is an oxidizer and its heat reaction with reducing agents or combustibles may cause ignition.

Recommendations for Storage: Store away from flammable substances. Store away from reducing agents. Do not store with organic materials. Store away from metal powders.

Incompatibilities: N/A

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

General / Local Exhaust: Required in handling area

Engineering Controls: Contains no substance with occupational exposure limit values.

Controls: Other: Closed Ventilation system – (Laboratory Fume Hood) and handle in accordance with good industrial hygiene and safety practice.

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 conforming to EN166 or NIOSH.

Skin Protection: Wear chemical resistant gloves such as Nitrile rubber gloves of at least 0.11mm thickness.

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: Powder	Melting Point: 550 °C	Freezing Point: N/A
Color: White	Boiling Point/Range: N/A	pH: N/A
Molecular Wt.: N/A	Odor: N/A	Water Solubility: N/A
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: N/A
VOC Content (lbs./gal): N/A	Specific Gravity: N/A	Auto ignition Temp: N/A

Section 10:**Stability and Reactivity**

General: May intensify fire; oxidizer.

Incompatible materials: Reacts with reducing agents. Reacts with flammable substances. Incompatible with organic materials, flammable substances, reducing agents and metal powders.

Decomposition products: Hazardous with metal oxide fumes and potassium oxide. Decomposition will not occur if used and stored according to specifications.

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.

Carcinogenicity or mutagenicity: IARC/NTP/OSHA has determined that no component of this product at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

Section 12:**Ecological Information**

General information: Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

Section 13:**Disposal Information**

Product disposal: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

Other considerations: Disposal must be made according to official regulations.

Section 14:**Transport Information****DOT: Proper Shipping Name**

Oxidizing solid, n.o.s.

Hazard Class

5.1

DOT Identification Number/ UN

1479

DOT Shipping Label

5.1 Oxidizing Solid

Packaging Requirements

PG II

IMO/IMDG: Same as DOT. See regulation for information

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

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.

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.

Canadian DSL: 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: **R 23/24/25-** Harmful by inhalation, in contact with skin and if swallowed
S36/37/39- Wear suitable [protective clothing, gloves and eye/face protection
S 7/8- Keep container tightly closed and dry

Section 16:**Other Information****NFPA Rating**

Health: 2

Fire: 0

Reactivity: 2

Other: OX

HMIS Rating

Health: 2

Fire: 0

Physical

hazard: 2

Personal

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 believe to be correct; however, you (the customer), should preform 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.

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