Product# 3017

Safety Data Sheet 29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Iridium (III) Chloride Hydrate

Product Code: 3017

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

Emergency Response: Supplier Emergency Contacts & Phone Number

Chemtrec: 800-424-9300

World Wide - Call COLLECT to U.S: 703-527-3887



www.colonialmetals.com

Section 2: Hazards Identification

4S07

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BLANI

Hazard Pictograms:



Signal Word: Warning

Hazard Category: Acute tox, oral Cat 4

Skin corrosion/irritation Cat 2

Serious eye damage/eye irritation Cat 2

Aspiration hazard Cat 2

Hazard Statements: H302: Harmful if swallowed

H315: Causes skin irritation H319: Causes serious eye irritation

H305: May be harmful if swallowed and enters airways

Precautionary P202: Do not handle until all safety precautions have been read and understood

Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P264: Wash thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

P308+313: IF exposed or concerned: Get medical advice/attention P402+404: Store in a dry place. Store in a closed container

 $P501: Dispose \ of \ contents/container \ in \ accordance \ with \ local/national/international \ rules.$

Hazards not otherwise classified:

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

compound have not been thoroughly investigated.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Iridium (III) Chloride Hydrate	Irritant	14996-61-3	99.9

Chemical Family: Platinum Group Metal Complex

Chemical Formula: IrCl3.XH2O
Synonyms: Iridium trichloridehydrate

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Section 4: First Aid Measures

General Info: Ensure proper ventilation.

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

mmediately.

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: Finely divided iridium may be a moderate fire hazard. As with any metal, upon heating may melt and with continued heating produce hazardous vapors. Emits toxic fumes under fire conditions.

Extinguishing Water spray, alcohol-resistant foam, dry chemical or carbon dioxide

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, Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all **protective equipment** ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate

and procedures: protective equipment (SCBA) and clothing during clean-up. Avoid breathing dust. Ventilate

area if easy to do so and wash spill site after clean up is complete. Contact local authorities if significant spillages cannot be contained. For personal 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 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.

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. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash

thoroughly after handling.

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

Storage

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 away from volatile acids.

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Section 8: Exposure Control / Personal Protection

General / Engineering Ventilation: Local Exhaust: Yes

Controls: Mechanical: Yes

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.

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

Skin Protection: Wear chemical resistant gloves.

Respiratory 0.1 mg/m3 supplied air respirator with a full face piece

Protection:

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

Information: hygiene facilities for washing

Section 9: Physical and Chemical Properties

State: Solids **Melting Point:** 1405 °F 763 °C **Freezing** N/A

Point:

Color: Dark Boiling N/A pH N/A

Brown Point/Range:

Crystals

Molecular Wt. 298.58 Odor: N/A Water Insoluble

Solubility:

octanol/water

 $\label{tower Flam Limits: N/A} \textbf{Lower Flam N/A} \qquad \qquad \textbf{Vapor N/A}$

Limits: Pressure:

VOC Content N/A Viscosity: N/A Autoignition N/A

(lbs/gal): Temp:

Specific Gravity: 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)

Elevated temperature.

Incompatible Strong oxidizing agents, acids, bases, alkaline metal salts, copper, zinc salts, cyanides

materials:

Decomposition Hydrogen chloride gas, iridium oxides

products:

Section 11: Toxicological Information

General Information:

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

Information have not been thoroughly investigated.

(product):

Likely Routes of Eye Contact

Exposure: Skin Contact

Inhalation

Ingestion - possible, but considered unlikely.

Toxicological Information (contained substances)

Carcinogenicity or No data available

mutagenicity:

Sensitization: Product is not expected to be a sensitizer.

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

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: Considered non-hazardous for transport. **IMO/IMDG:** Considered non-hazardous for transport.

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

OTHER: Inquire for further transport information.

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.

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.

DSL: Yes NDSL: No

European Union (EU) Symbol of Danger: F-Xi **Regulatory** Indication of Danger: Toxic

Information:

Section 16: Other Information

Health: 2 HMIS Rating
Fire: 0 Health: 2
Reactivity: 0 Fire: 0
Reactivity: 0
Personal

Protection: J

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 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.

SDS Author: John Kerchner Version Date: 9/8/2015