

# SAFETY DATA SHEET

Date Printed: 05/01/2024

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (5N) 99.999% Cobalt(II) Aluminate Sputtering Target

**Product Code:** CO2-ALO-05-ST

**CAS Number:** 1333-88-6

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351  
Emergency telephone number:  
+1 800-424-9300

## SECTION 2. HAZARDS IDENTIFICATION

Statements of Hazard: Irritant, Skin sensitizer

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, inhalation or skin absorption.

Chronic Health Hazard: Target organ effect, Carcinogen

HMIS Rating: H:2 F:0 P:0

NFPA Rating: H:2 F:0 R:0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Pictogram:



Signal Word: Warning

Hazard Statement(s): H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.  
H351 suspected of causing cancer.  
Precautionary Statement(s): P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

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### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name: Cobalt aluminate Tech. Grade  
Synonyms: Not Available  
CAS Number: 1333-88-6  
MDL Number: MFCD00016016  
EINECS Number: 215-610-4  
Belstein Registry Number: Not Available  
Molecular Formula:  $\text{CoAl}_2\text{O}_4$   
Molecular Weight: 176.89  
Content: 95 - 100%  
Notes: Not Available

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### **SECTION 4. FIRST AID MEASURES**

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.  
Skin Contact: Wash skin with soap and water. If irritation persists, seek medical attention.  
Ingestion: Do not induce vomiting. Seek medical attention.  
Inhalation: Move to a fresh air environment. Contact a physician if breathing becomes difficult.

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### **SECTION 5. FIREFIGHTING MEASURES**

Flash Point: Not Available  
Explosion Limits: Lower: Not Available  
Upper: Not Available  
Autoignition: Not Available

Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.

Protective Equipment: Wear self-contained respirator and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under fire conditions.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use.

Keep unprotected persons away.

Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

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## **SECTION 7. HANDLING AND STORAGE**

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Storage: Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities: Not Available

Storage Temperature: 15 – 30 °C

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Eyes: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash facility in your vicinity.

Skin: Wear impervious gloves and protective clothing.

Respiratory: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

Exposure Limits: Country Source Type Value

USA ACGIH TWA Not Available

USA OSHA STEL Not Available

USA OSHA PEL Not Available

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Solid

Odor: Not Available

Melting Point: 660 °C  
Boiling Point: 2467 °C  
pH Value: Not Available  
Density: Not Available  
Refractive Index, n<sub>20</sub>  
D: Not Available  
Viscosity: Not Available  
Solubility in Water: Not Available  
Vapor Pressure: Not Available  
Vapor Density (Air=1): Not Available

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## **SECTION 10. STABILITY AND REACTIVITY**

Stability: Stable under normal temperatures and pressures.  
Incompatibility: Strong oxidizing agents.  
Conditions to Avoid: Heat, Flame, Sparks, Other ignition sources  
Hazardous Decomposition Products: Aluminum oxides, Cobalt oxides.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

RTECS Reference: Not Available  
Target Organs: Lungs, Blood, Thyroid  
Toxicity Data: Not Available  
Skin corrosion/irritation: Not Available  
Serious eye damage/irritation: Not Available  
Carcinogenicity: Not Available

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity: Not Available  
Persistence and degradability: Not Available  
Bioaccumulative potential: Not Available  
Mobility in soil: Not Available  
PBT and vPvB assessment: Not Available  
Other adverse effects: Not Available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT: Not Regulated  
IATA: Not Regulated  
IMDG: Not Regulated

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## SECTION 15. REGULATORY INFORMATION

United States:

Toxic Substance Control Act (TSCA): Listed

Superfund Amendments and Reauthorization Act (SARA 302): Not listed

Superfund Amendments and Reauthorization Act (SARA 311/312): Not listed

Superfund Amendments and Reauthorization Act (SARA 313): Not listed

European Union:

European Inventory of Existing Chemical Substances (EINECS): No. 200-755-8

Hazard Codes: Xn

Risk Statements: 36/37/38-40-43-53

Safety Statements: 22-26-37/39-45

Canada

Canadian Domestic Substances List (DSL): Listed

Canadian Domestic Substances List (NDSL): Not listed

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## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.