

# SAFETY DATA SHEET

Date Printed: 05/12/2024 Date Revised: 01/15/2022

### **SECTION 1. IDENTIFICATION**

Product Identifier: (4N) 99.99% Cobalt Aluminum Oxide Nanopowder

Product Code: CO2-ALO-04-NP

**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.

### 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: CoAl2O4 Molecular Weight: 176.89

Content: 95 - 100% Notes: Not Available

# **SECTION 4. FIRST AID MEASURES**

Eve 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.

# **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.

### **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.

## **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

## 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

# **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, n20 D: Not Available

Viscosity: Not Available

Solubility in Water: Not Available Vapor Pressure: Not Available Vapor Density (Air=1): Not Available

#### **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.

# **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

## **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

### **SECTION 13. DISPOSAL CONSIDERATIONS**

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

# **SECTION 14. TRANSPORT INFORMATION**

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

## **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

#### 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.