

# XI'AN FUNCTION MATERIAL GROUP CO., LTD

## Material Safety Data Sheet Cobalt Oxide

### 1. Product and Company Identification

Trade Name: Cobalt oxide

Chemical Formula: CoO

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

### 2. Hazards Identification

Signal Word: Warning



Hazard Statements: H302: Harmful if swallowed

H317: May cause an allergic skin reaction

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

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

P363: Wash contaminated clothing before reuse

P331: Do NOT induce vomiting

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

## 3. Composition

Chemical Family: Ceramic

Additional Names: Cobalt(II) oxide

Cobalt oxide (CoO):

Percentage: 100 wt% CAS #: 1307-96-6 EC #: 215-154-6

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Seek medical attention. Ingestion: Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Non-flammable No special restrictions – use suitable extinguishing agent for Extinguishing Media: surrounding material and type of fire Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage Handling Conditions: Handle under dry protective gas. Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry **Storage Conditions:** inert gas. Store apart from materials and conditions listed in section 10. Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: 0.1 mg/m<sup>3</sup> as Co, metal dust and fume, long-term value Threshold Limit Value: 0.5 mg/m<sup>3</sup> as Co, long-term value **Special Equipment:** None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Eye Protection: Safety glasses or goggles

Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

**Body Protection:** 

#### 9. Physical and Chemical Characteristics Color Black to green Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** 1935 °C Flash Point: N/A **Autoignition Temperature:** N/A 6.45 g/cc Density: Molecular weight: 74.93 g/mol 10. Reactivity Stable under recommended storage conditions Stability: Reacts With: Oxidizing agents **Incompatible Conditions:** Air **Hazardous Decomposition Products:** Metal oxide fume 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: Causes irritating effect Ingestion: May cause irritation Inhalation: May cause irritation Chronic: N/A Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: 202 mg/kg for rat by mouth Carcinogen: IARC-2B: Possibly carcinogenic to humans: limited evidence in human in the absence of sufficient evidence in experimental animals. ACGIH A3: Animal carcinogen: Agent is carcinogenic in experimental animals at a relatively high dose, by routes of administration, at sites, of histologic types, or by mechanisms not considered relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or level of exposure. 12. Ecological Information Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation as powder

POISON 6

Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN3288

Proper Shipping Name: Toxic solids, inorganic, n.o.s. (Cobalt(II) oxide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 06/23/2017