

Material Safety Data Sheet

SECTION I

PRODUCT NAME OR NUMBER (AS IT APPEARS ON LABEL):

Silvered Cobaltous-Cobaltic Oxide  
AEB-1000

MANUFACTURER: Alpha Resources, Inc.                      TELEPHONE: 269-465-5559  
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Stevensville, MI 49127

MANUFACTURER'S DUNNS NO. 08 383 8045

HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME, HAZARD  
CLASSES, HAZARD ID NO:

Cobalt Oxide coated with 12% Silver Metal

CHEMICAL FAMILY: Oxides

FORMULA: Co2O3/Ag

SECTION II - HAZARDOUS INGREDIENTS

CAS REGISTRY NO.	%W	%V	CHEMICAL NAMES	LISTED AS A CARCINOGEN IN NTP, IARC OR OSHA 1910(Z) SPECIFY
1308-06-1	> 88	> 88	Cobalt Oxide Powder	no
7761-88-8	12	12	Silver Metal	no

SECTION III - PHYSICAL DATA

Boiling point: none                      SPECIFIC GRAVITY = 5.1  
(WATER = 1)

% Volatile by volume: n/a

Vapor pressure: none

Percent solid(s) by weight % = 100

Vapor density (air = 1): n/a

Evaporation rate: none

Solubility in water: insoluble                      pH n/a

Melting point: n/a

Material is Powder

Appearance and odor: Black/none

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point: non flammable

Flammable limits: LEL: n/a UEL: n/a

Extinguishing media: water

Special fire fighting procedures: none

Unusual fire and explosion hazards: none

#### SECTION V HEALTH HAZARD DATA

Threshold Limit Value: 1 mg/M3 Cobalt metal and insoluble salts

Effects of overexposure: may cause mechanical irritation to eyes  
Repeated and prolonged exposures to trivalent cobalt compounds  
may cause delayed effects involving the respiratory system.

Causes skin irritation.

Primary routes of entry: Inhalation Skin Contact

Emergency and first aid procedures: Flush eyes with generous  
amounts of water for at least 15 minutes. Call a physician.

Wash dust from skin with soap and water. Remove contaminated  
clothing. Consult a physician.

Inhalation: remove to fresh air. Call a physician.

Ingestion: If conscious, give large quantities of water to induce  
vomiting. Get medical attention.

#### SECTION VI REACTIVITY DATA

Stability: stable Conditions to avoid: n/a

Incompatibility: (material to avoid) Chlorine trifluoride,  
lithium, nitroalkanes, dirubidium acetylide, oxygen difluoride,  
strong oxidizers

Hazardous decomposition products: none

Hazardous polymerizations: none

Conditions to avoid: n/a

#### SECTION VII SPILL OR LEAK PROCEDURE

Steps to be taken in case material is released or spilled: Normal  
clean-up procedures. Care should be taken to avoid causing dust  
to become airborne. Vacuum cleaning systems are recommended.

Waste disposal:

Comply with state, federal, and local regulations.

Reportable quantities in lbs.:

CERCLA n/a SARA n/a OTHER n/a

RCRA hazardous waste number(s): n/a

Volatile organic compounds (VOC) (as packaged minus water).

Theoretical (lbs/gal): n/a

Analytical (lbs/gal): n/a

#### SECTION VIII SPECIAL PROTECTION

Eye protection: Safety goggles, face shield

Skin protection: leather or rubber gloves

Respiratory protection: use of dust respirator recommended when exposure limits may be exceeded

Ventilation Local Exhaust (specify rate): local exhaust ventilation to collector or containment recommended to control dust below exposure limits

#### SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing and/or other precautions:

Good industrial hygiene practice requires that employee exposure be maintained to below the recommended TLV. This is preferable achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

#### SUPPLEMENTAL INFORMATION

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

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