



MATERIAL SAFETY DATA SHEET  
COMPLIES WITH 29 CFR 1910.1200.  
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 07-23-97

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## CHEMICAL IDENTITY

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LABEL IDENTITY	<b>COBALT</b>
CALCULATED MOLECULAR WEIGHT	<b>58.933</b>
FORMULA	<b>Co</b>
CHEMICAL FAMILY	<b>ELEMENT</b>
HAZARDOUS INGREDIENTS	<b>COBALT</b>
%: <b>100</b> CAS: <b>7440-48-4</b> TLV: <b>0.05 mg/m3</b> OSHA/PEL: <b>0.05 mg/m3</b>	

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## PHYSICAL AND CHEMICAL PROPERTIES

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COLOR, FORM AND ODOR	<b>Silvery gray metal, solid. Odorless</b>
BOILING POINT	<b>2900°C</b>
DENSITY (gm/cc)	<b>NA</b>
VAPOR PRESSURE @ 20°	<b>NA</b>
% VOLATILE BY VOLUME (%)	<b>NA</b>
REACTION WITH WATER	<b>ND</b>
EVAPORATION RATE (H20=1)	<b>NA</b>
SOLUBILITY IN WATER	<b>Insoluble</b>
MELTING POINT	<b>1495°C</b>

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## FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT	<b>NA</b>
AUTOIGNITION TEMPERATURE (°C)	<b>ND</b>
FLAMMABILITY	<b>Powdered form may be spontaneously combustible; may be flammable upon contact with heat or flame. Explosive reactions with some nitrates</b>
EXTINGUISHING MEDIA	<b>CO<sub>2</sub></b>
SPECIAL FIRE FIGHTING PROCEDURES	<b>NOT USE WATER ON METAL FIRES!</b>
UNUSUAL FIRE & EXPLOSION HAZARDS	<b>Wear a self-contained breathing apparatus Moderate fire hazard when powder is exposed to flame or heat</b>





## COBALT MATERIAL SAFETY DATA SHEET

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### SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

**Under normal handling, material is not dusty and causes no problems. No protection required.**

WASTE DISPOSAL METHOD:

**In accordance with local, state and federal regulations.**

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### SPECIAL PROTECTIVE INFORMATION

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RESPIRATORY PROTECTION	<b>NIOSH approved respirator</b>
LOCAL EXHAUST	<b>Fume hood for dust or fumes</b>
MECHANICAL (general)	<b>ND</b>
SPECIAL	<b>NA</b>
OTHER	<b>NA</b>
PROTECTIVE GLOVES	<b>Vinyl, latex, leather or rubber gloves</b>
EYE PROTECTION	<b>Chemical workers dust-proof goggles</b>
OTHER PROTECTIVE EQUIPMENT	<b>NA</b>

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### SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

**Store away from acids**

TRANSPORTATION REQUIREMENTS: **ND**

DOT CLASS:	<b>Not Classified</b>
UN NUMBER:	<b>NC</b>
IMCO CLASS:	<b>Non-flammable solid</b>
OTHER:	<b>---</b>

PRECAUTIONARY LABELING

**NONE**

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THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, **ANGSTROM SCIENCES** MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR THE RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

**NA= NOT APPLICABLE**

**ND= NO DATA FOUND**