



# Safety Data Sheet

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## 1. IDENTIFICATION

Product: Nickel Cobalt Alloy P/N 952508.901, 952512.901, 952516.901.	MSDS #: 901135.001
Product Use: For laboratory use only.	Date: Rev E, February 28, 2014

## 2. HAZARDS IDENTIFICATION:

The products are not hazardous in the form in which they placed on the market and under the normal and recommended conditions of storage and use. The products are considered articles and are not dangerous according to the criteria set by the European Union (EU) or GHS.

The small quantities supplied in our products are unlikely to cause severe or immediate health effects. Use only as directed and in accordance with safe laboratory practices.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% by Weight	EXPOSURE LIMITS		
				OSHA	ACGIH	EU IOELV
Nickel (metal)	7440-02-0	231-111-4	37-83	1.0 mg/m <sup>3</sup>	1.5 mg/m <sup>3</sup>	NA
Cobalt	7440-48-4	231-158-0	17-63	0.1 mg/m <sup>3</sup>	0.02 mg/m <sup>3</sup>	NA

Notes: Products are vials containing either 3 pieces of metal foil, each approximately 300 mm long by 0.35 mm thick by 2mm wide, or <200 mg of large granules, to be used only as a temperature calibrant for thermal analysis equipment.

Exposure Limits are 8-Hour TWA. (Time Weighted Average) unless designated C (Ceiling) or STEL (Short Term Exposure Limit).

## 4. FIRST AID MEASURES:

Inhalation: Remove to fresh air.  
 Skin Contact: Flush with water.  
 Eye Contact: Immediately flush with water for a minimum of 15 minutes.  
 Ingestion: Get medical attention.

After following first aid measures, seek medical attention.

## 5. FIRE-FIGHTING MEASURES:

Flammable Properties: Not flammable.  
 Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.  
 Unique Aspects Contributing To a Fire: None.  
 Special Fire Fighting Procedures: None.  
 Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES: Due to small quantities involved, spills or leaks should not pose a significant problem. Sweep up and place wastes into closed containers for proper disposal.

7. HANDLING AND STORAGE: Handle as directed and in accordance with safe laboratory practices.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Handle in accordance with safe laboratory practices.

Respiratory Protection: Not normally needed.  
 Eye Protection: No special requirements. Safety glasses with side protection.  
 Skin Protection: No special requirements. Disposable nitrile are acceptable for light intermittent exposure.  
 Engineering Controls: No special requirements.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance: Gray metallic foil or large granules

Physical State: Solid	Flash Point: NA	Vapor Pressure: NA
Odor: None	Explosion Limits: NA	Vapor Density (air=1): NA
pH: NA	Boiling Point: 4946 °F (2730°C)	Solubility in Water: Insoluble
Specific Gravity: NA	Melting Point: 2647 °F (1453°C)	Other: NA

**10. STABILITY AND REACTIVITY:**

Hazardous Polymerization  Will Not Occur  May Occur

Stability: Stable

**Hazardous Decomposition/Combustion Products:**

Nickel oxides, cobalt oxides

**Conditions & Materials to Avoid:**

Acids, oxidizing agents.

**11. TOXICOLOGICAL INFORMATION:**

When used and handled according to directions, the product does not have any harmful effects according to our experience and the information provided to us. However nickel and cobalt are harmful as dusts or fumes and are suspected of causing cancer upon inhalation. Nickel may cause sensitization upon contact.

Primary Route(s) of Exposure under Normal Use: None.

Target Organ(s): NA

Acute Effects: NA

Chronic Effects: NA

Other Information: Chemical Ingredient (nickel metal) is classified as a carcinogen by IARC (group 2B), NTP (Group 2), and California (Warning: This product contains a chemical (nickel) known to the state of California to cause cancer.)

Chemical Ingredient (cobalt metal) classified as carcinogen by: IARC (Group 2B); ACGIH (Category A2); and California (Warning: This product contains a chemical (cobalt) known to the State of California to cause cancer.).

**12. ECOLOGICAL INFORMATION: NA**

**13. DISPOSAL CONSIDERATIONS:** Consult state, local or national regulations for proper disposal. The U.S. Environmental Protection Agency (EPA) does not classify unused product as hazardous waste.

**14. TRANSPORT INFORMATION:** Not Dangerous Goods. Not Regulated.

<b>IATA/ICAO:</b> Shipping Name: NA	IMDG: NA
Hazard Class: NA	
UN/NA #: NA	
Packing Group #: NA	
	ADR: NA

**15. REGULATORY INFORMATION:**

U.S. TOSCA: Listed.

Canada: This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR.

**16. OTHER INFORMATION:**

<u>U.S. EPA</u>	<b>National Fire Protection Association Rating</b>		
<u>SARA 313 Chemicals</u>	<u>CERCLA RQ</u>	4=Severe Hazard	<b>HEALTH</b> NA
Nickel	Nickel: 100 lbs	3=Serious Hazard	<b>FLAMMABILITY</b> NA
Cobalt	None	2=Moderate Hazard	<b>REACTIVITY</b> NA
		1=Slight Hazard	<b>OTHER</b> NA
		0=Minimal Hazard	

Notes, abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 EC: European Commission  
 EU IOELV: European Union Indicative Occupational Exposure Limit Values

GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
 IATA: International Air Transport Association  
 IMDG: International Maritime Code for Dangerous Goods  
 NA: Not Available.  
 OSHA: Occupational Safety and Health Administration

For laboratory use only. Not for drug, household or other uses.

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