

LTS Research Laboratories, Inc. Safety Data Sheet Nickel Cobalt

	1. Product and Company Identification
Trade Name:	Nickel Cobalt
Chemical Formula:	NiCo
Recommended Use:	Scientific research and development
Manufacturer/Supplier:	LTS Research Laboratories, Inc.
Street:	37 Ramland Road
City:	Orangeburg
State:	New York
Zip Code:	10962
Country:	USA
Tel #:	855-587-2436 / 855-lts-chem
24-Hour Emergency Contact:	800-424-9300 (US & Canada)
	+1-703-527-3887 (International)
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H228: Elammable solid
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3. Composition		
Chemical Family:	Alloy	
Additional Names:	N/A	
Nickel (Ni):		
Percentage:	0-100 wt%	
CAS #:	7440-02-0	
EC #:	231-111-4	
Cobalt (Co):		
Percentage:	0-100 wt%	
CAS #:	7440-48-4	
EC #:	231-158-0	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
important symptoms.		
Inhalation:	Supply fresh air and if required, provide artificial respiration. Seek medical attention.	
Ingestion:	Seek medical attention.	
Skin:	Wash affected area with mild soap and water. Remove any	
JAIII.	contaminated clothing. Seek immediate medical advice.	
Even		
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Consult a doctor.	
	5. Firefighting Measures	
Flammability:	Flammable as powder	
Extinguishing Media:	Do not use water for metal fires – use extinguishing powder.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective	
Spec. The fighting frocedure.	clothing to prevent contact with skin and eyes. See section 10 for	
	decomposition products.	
	6. Accidental Release Measures	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in	
	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.	
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8. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	1 mg/m ³ as Ni, ceiling limit value
-	0.1 mg/m ³ as Co, for metal dust and fume, long-term value
Threshold Limit Value:	0.015 mg/m ³ as Ni, respirable, long-term value
	1.5 mg/m ³ as Ni, inhalable fraction, long-term value
	0.02 mg/m^3 as Co, long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.
9.1	Physical and Chemical Characteristics
Color	N/A
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Insoluble
Boiling Point:	N/A
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	N/A
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Acids, Oxidizing agents
Incompatible Conditions:	Halogens, Electrostatic charges
Hazardous Decomposition Products:	Nickel oxides, Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation or allergic reaction
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Causes damage to the lung, the kidneys, and the liver through
	prolonged or repeated exposure
Signs & Symptoms:	May cause allergy or asthma symptoms or breathing difficulties
	if inhaled
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	6171 mg/kg for rat by mouth for Co
Carcinogen:	Suspected of causing cancer
	IARC-2B, NTP-R, ACGIH-A5

	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	Moderate No
Very Persistent, Very Bioaccumulative:	No
Notes:	Do not allow to reach ground water
	13. Disposal Considerations
Dispose of in accordance with local, state,	national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only
	Planmasi e solid
Hazard Class:	4.1 Flammable solids
Packing Group:	П
UN Number:	UN3089
Proper Shipping Name:	Metal powders, flammable, n.o.s. (Nickel Cobalt)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No 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.

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08/16/2022