

LTS Research Laboratories, Inc. Safety Data Sheet Cobalt Iron Vanadium Alloy

1. Product and Company Identification

Trade Name:	Cobalt iron vanadium alloy
Chemical Formula:	Co-Fe-V
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
Signal Word:	Danger
Signal Word:	H228 Flammable solid – powder H315 Causes skin irritation
	H228 Flammable solid – powder
	H228 Flammable solid – powder H315 Causes skin irritation H317+H334 May cause allergy or asthma symptoms H319 Causes serious eye irritation P210 Keep away from heat/sparks/flame. No smoking. P261 Avoid breathing dust/fume/vapor
Hazard Statements:	H228 Flammable solid – powder H315 Causes skin irritation H317+H334 May cause allergy or asthma symptoms H319 Causes serious eye irritation P210 Keep away from heat/sparks/flame. No smoking.
Hazard Statements: Precautionary Statements: HMIS Health Ratings (0-4):	H228 Flammable solid – powder H315 Causes skin irritation H317+H334 May cause allergy or asthma symptoms H319 Causes serious eye irritation P210 Keep away from heat/sparks/flame. No smoking. P261 Avoid breathing dust/fume/vapor
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	3. Composition
Chemical Family:	Metal alloy
Additional Names:	N/A
Cobalt (Co):	
Percentage:	5-95 wt%
CAS #:	7440-48-4
EC #:	231-158-0
Iron (Fe):	
Percentage:	5-95 wt%
CAS #:	7439-89-6
EC #:	231-096-4
Vanadium (V):	
Percentage:	5-95 wt%
CAS #:	7440-62-2
EC #:	231-171-1
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion: Skin:	Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any
SKIII.	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
Lycs.	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder. Use full-face, self-contained breathing apparatus with full protective 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.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
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	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. 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. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	0.1 mg/m ³ as Co, long-term value, dust or fume
Threshold Limit 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.	Physical and Chemical Characteristics
Color	Metallic grey, shade varies
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	
Boiling Point:	N/A honstories. Inc.
Melting Point:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Density: Molecular weight:	N/A N/A
	14/74
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions: Hazardous Decomposition Products:	None Metal oxide fume
	11. Toxicological Information
Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	May cause irritation, allergy, asthma symptoms
Inhalation: Chronic:	May cause irritation, allergic reaction N/A
Cinonic.	19/23
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	6171 mg/kg for rat by mouth as Co
Carcinogen:	Carinogenic at high dose
-	IARC-2B, ACGIH A3

12. Ecological Information Aquatic Toxicity: Medium Persistent Bioaccumulation Toxicity: No Notes: No Notes: N/A 13. Disposal Considerations Dispose of in accordance with local, state, national, and international regulations. 14. Transportation Data Hazardous: Hazardous as powder only. Hazard Class: 4.1 Flammable solids Packing Group: III UN Number: UN3089 Proper Shipping Name: Metal powders, flammable, n.o.s. (Cobalt iron vanadium alloy) 15. Regulatory Information Sec 302 Extremely Hazardous: No No NA		
Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A		12. Ecological Information
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Image: Sec 302 Extremely Hazardous: Image: Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities:	Notes:	N/A
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Sec 304 Reportable Quantities: N/A BESBACCI		15. Regulatory Information
Sec 304 Reportable Quantities: N/A BESBACCI	Sec 302 Extremely Hazardous:	No
See 515 Toxic Chemicais. All components	Sec 313 Toxic Chemicals:	All components honetories, Inc.
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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