

## Stanford Advanced Materials Safety Data Sheet Nickel Chromium Aluminum

## 1. Product and Company Identification

Trade Name: Nickel chromium aluminum NiCrAl Chemical Formula: Scientific research and development

Recommended Use:

**Stanford Advanced Materials** 

Manufacturer/Supplier:

23661 Birtcher Dr.,

Address: Lake Forest, CA 92630 U.S.A.23661

Birtcher Dr.,

Lake Forest, CA 92630 U.S.A.

24-Hour Emergency Contact: (949) 407-8904

(This telephone number is available 24 hours per day, 7 days per week.)

#### 2. Hazards Identification

Signal Word: Danger





Hazard Statements: H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer.

H372: Causes damage to organs through prolonged or repeated

exposure

Precautionary Statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P363: Wash contaminated clothing before reuse

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 0

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		3. Compo	osition				
Chemical Family: Additional Names:		Alloy None				.''	
Nickel (Ni): Percentage:		0-100 wt%:					
CAS #: EC #:	·	7440-02-0 231-111-4	•		'.		
Chromium (Cr): Percentage: CAS #:	1	0-100 wt%	1	<u>'</u> :	`:	1	·:
EC #: Aluminum (Al):		231-157-5					
Percentage: CAS #: EC #:		0-100 wt% 7429-90-5 231-072-3					
				111			
		4. First Aid P	rocedures				
General Treatment: Special Treatment: Important Symptoms:	1: 1:1	Seek medical attention if symptoms persist. None None					
		contaminated c	lothing.				
Eyes:	i. : : : : : : : : : : : : : : : : : : :	Flush eyes with contact lenses i	water, blin				Remove
Eyes:		Flush eyes with	water, blin f present and				Remove
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#### 8. Exposure Controls and Personal Protection

Permissible Exposure Limits:

Threshold Limit Value:

0.5 mg/m<sup>3</sup> as Cr, long-term value

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Special Equipment:

Respiratory Protection: Protective Gloves:

None **Dust Respirator** 

Rubber gloves

Eye Protection: **Body Protection:**  Safety glasses or goggles

Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

### 9. Physical and Chemical Characteristics

Color

Silver

Form:

Granules, Pellets, Sputtering target, Custom parts

Odor:

Odorless

Water Solubility: **Boiling Point:** 

Insoluble N/A

Melting Point:

N/A

Flash Point:

N/A N/A

Autoignition Temperature: Density:

N/A

Molecular weight:

N/A

## 10. Reactivity

Stability:

Stable under recommended storage conditions

Reacts With:

Acids, Oxidizing agents

**Incompatible Conditions:** 

None

Hazardous Decomposition Products:

Metal oxide fume

# 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: May cause irritation Inhalation: May cause irritation Chronic: N/A Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: N/A IARC-2B: Possibly carcinogenic to humans: limited evidence in human Carcinogen: in the absence of sufficient evidence in experimental animals. EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of carcinogenicity from epidemiologic studies. IARC-3: Not classifiable as to carcinogenicity to humans. (Inhalation)EPA-K: Known human carcinogens (Oral)EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available. (Oral)EPA-CBD: Carcinogenic potential cannot be determined. ACGIH A5: Not suspected as a human carcinogen: Not suspected as a human carcinogen on the basis of properly conducted epidemiologic studies in humans. Studies have sufficiently long follow-up, reliable exposure histories, sufficiently high dost, and adequate statistical power to conclude that exposure to the agent does not convey a significant risk of cancer to humans. Evidence suggesting a lack of carcinogenicity in experimental animals will be considered if it is supported by other relevant data. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. 12. Ecological Information Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A 13. Disposal Considerations Dispose of in accordance with local, state, national, and international regulations. 14. Transportation Data Hazardous: Not hazardous for transportation. **Hazard Class:** N/A

N/A

N/A

N/A

Packing Group:

Proper Shipping Name:

UN Number:

	15. Regulatory Information						
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: Sec 313 Toxic Chemicals:	No N/A 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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