

# SAFETY DATA SHEET

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: Niranium® Alloy 1-2-3  
Product Number: 804003, 804003K  
Chemical Family: Metals  
CAS Number: Blend

### Company Identification

Niranium Co., Div. of CMP Industries LLC  
413 North Pearl St  
Albany, NY 12207-1311 USA  
(518)-434-3147 (For product information)  
(800)-424-9300 (For emergencies)  
1-800-424-9300 or 1-202-483-7616 (CHEMTREC)

## 2. HAZARDS IDENTIFICATION

```
***** EMERGENCY OVERVIEW *****
*
* WARNING
*
* May cause skin, eye, or respiratory tract
* irritation. Cancer hazard.
*
*****
```

### **EYE:**

Causes eye irritation.

### **SKIN:**

May cause skin irritation.

### **INHALATION:**

Individuals with preexisting diseases of the lungs may have increased susceptibility. Vapors may be slightly irritating to respiratory tract.

### **INGESTION:**

Ingestion is not considered a potential route of exposure.



(section 2 continued)

**SIGNS AND SYMPTOMS OF EXPOSURE:**

High dust concentrations may cause irritation of the eyes and throat. Extreme exposure could cause chronic pulmonary disease. nickel sensitive persons may experience dermatitis.

**CHRONIC EFFECTS:**

Repeated and prolonged exposure may lead to delayed injury in pulmonary function.

**REPRODUCTIVE HAZARDS:**

None.

**CARCINOGENICITY INFORMATION:**

Nickel, Chromium and Beryllium are listed by IARC and NTP as carcinogens.

**MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:**

Not determined.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**COMPONENT LISTING:**

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
CHROMIUM	13.0 %	7440-47-3
NICKEL	74.0 %	7440-02-0
ALUMINUM	3.0 %	7429-90-5
BERYLLIUM	1.8 %	7440-41-7
MOLYBDENUM	5.0 %	7439-98-7

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains materials that are acute, chronic hazards.

**4. FIRST AID MEASURES**

**EYE CONTACT FIRST AID:**

Immediately flush eyes with plenty of water.

**SKIN CONTACT FIRST AID:**

Wash with soap and water. If irritation persists contact a physician.

**INHALATION FIRST AID:**

Remove to fresh air. If breathing is difficult, remove to fresh air and provide oxygen. Seek medical attention.



(section 4 continued)

**INGESTION FIRST AID:**

Swallow large amounts of water and induce vomiting. Obtain medical help.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

COC Flash Point: N/A

Autoignition Temperature: N/A

**FLAMMABLE LIMITS IN AIR**

LEL: N/A

UEL: N/A

**FLAMMABLE PROPERTIES:**

Not Flammable.

**EXTINGUISHING MEDIA:**

Use extinguishing media appropriate for surrounding fire.

**FIRE & EXPLOSION HAZARDS:**

None.

**COMBUSTION PRODUCTS:**

None.

**6. ACCIDENTAL RELEASE MEASURES**

**LARGE SPILLS PROCEDURE:**

In solid form this material poses no special clean up problems. Remove dust by vacuuming or wet sweeping to avoid air contamination. Protective clothing not normally required during clean up procedures.

**SMALL SPILLS PROCEDURE:**

Same as large spill.

**7. HANDLING AND STORAGE**

No information available.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS:

If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### EYE / FACE PROTECTION REQUIREMENTS:

Safety glasses are recommended to avoid contact with eyes.

### SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination. Wash hands thoroughly after handling.

### RESPIRATORY PROTECTION REQUIREMENTS:

Atmospheric levels should be maintained below the exposure guideline.

### EXPOSURE GUIDELINES:

#### CHROMIUM

OSHA PEL: 1 mg/m<sup>3</sup>  
OSHA TWA: .05 mg/m<sup>3</sup>

#### NICKEL

OSHA PEL: 1 mg/m<sup>3</sup>  
OSHA TWA: 1 mg/m<sup>3</sup>

#### ALUMINUM

OSHA PEL: 5 mg/m<sup>3</sup>  
OSHA TWA: 5 mg/m<sup>3</sup>

#### BERYLLIUM

OSHA PEL: .002 mg/m<sup>3</sup>  
OSHA TWA: .002 mg/m<sup>3</sup>

#### MOLYBDENUM

OSHA PEL: 15 mg/m<sup>3</sup>  
OSHA TWA: 5 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM . . . . : Ingot  
COLOR . . . : Silver  
ODOR . . . . : None

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable.

### POLYMERIZATION:

Product will not undergo polymerization.



## 11. TOXICOLOGICAL INFORMATION

### CHRONIC EFFECTS /:

May cause respiratory disease.

### CHROMIUM

Test Code: Implant TDLO

Species: Rat

Results: 1200 micrograms/kg of body weight administered  
intermittently over a six week period.

### NICKEL

Test Code: Intravenous LDLO

Species: Dog

Results: 10 mg/kg

Test Code: LDlo

Species: Guinea Pig

Results: 5 mg/kg

### BERYLLIUM

Test Code: TCLO

Description: Inhalation

Species: Human

Results: 300 mg/m<sup>3</sup> produced pulmonary effects.

Test Code: Implant TDLO

Species: Rat

Results: 250 mg/kg

### MOLYBDENUM

Test Code: Intraperitoneal LD50

Species: Rat

Results: 114 mg/kg

Test Code: TDLO

Description: Intravenous

Species: Rabbit

Results: 20 mg/kg produced neoplastic effects.

## 12. ECOLOGICAL INFORMATION

### MISCELLANEOUS:

Dike and contain spill with absorbent material such as clay or commercial absorbent.



### 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:**

Dispose of waste material in accordance with all local, state/provincial, and national requirements.

### 14. TRANSPORT INFORMATION

PRODUCT LABEL .....: Niranium® Alloy 1-2-3  
D.O.T. SHIPPING NAME .....: N/A  
TECHNICAL SHIPPING NAME ...: N/A  
D.O.T. HAZARD CLASS .....: N/A  
UN NUMBER .....: N/A

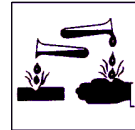
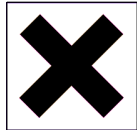
### 15. REGULATORY INFORMATION

**REGULATORY LISTS SEARCHED:**

01 = SARA 313	02 = CA Proposition 65
03 = SARA 302/304	04 = CERCLA 302.4
05 = ACGIH TWA	06 = ACGIH STEL
07 = ACGIH CALC TLV	08 = OSHA PEL
09 = CANADIAN WHMIS	10 = OSHA Ceiling

**EEC Symbols and Indications of Danger:**

Irritant (Xi), Corrosive (C)



**R-Phrases:**

R36/37/38 - Irritating to eyes, respiratory system, and skin.

**WHMIS Hazard Symbols:**

Class D2 - Materials Causing Other Toxic Effects



(section 15 continued)

**Canadian Disclosure List**

CHROMIUM (7440-47-3)  
NICKEL (7440-02-0)  
ALUMINUM (7429-90-5)  
BERYLLIUM (7440-41-7)  
MOLYBDENUM (7439-98-7)

**SARA Title III - Section 313**

CHROMIUM (7440-47-3)  
NICKEL (7440-02-0)  
ALUMINUM (7429-90-5)  
BERYLLIUM (7440-41-7)

**CERCLA Hazardous Substances**

CHROMIUM (7440-47-3) -- RQ 5000 lb  
NICKEL (7440-02-0) -- RQ 100 lb  
BERYLLIUM (7440-41-7) -- RQ 10 lb

**RCRA Hazardous Substances**

CHROMIUM (7440-47-3) -- RCRA Code: D007  
NICKEL (7440-02-0) -- RCRA Code: Unknown  
BERYLLIUM (7440-41-7) -- RCRA Code: P015

**Title V**

CHROMIUM (7440-47-3)  
NICKEL (7440-02-0)  
ALUMINUM (7429-90-5)  
BERYLLIUM (7440-41-7)  
MOLYBDENUM (7439-98-7)

**CA Proposition 65**

NICKEL (7440-02-0)

**SC Toxic Air Pollutants List**

CHROMIUM (7440-47-3)  
NICKEL (7440-02-0)  
ALUMINUM (7429-90-5)  
BERYLLIUM (7440-41-7)  
MOLYBDENUM (7439-98-7)

**16. OTHER INFORMATION**



(section 16 continued)

PREPARED BY .....: Ylvonne Thomas  
APPROVED BY .....: John Nicpon  
TITLE .....: Quality Manager  
APPROVAL DATE .....: November 1, 2013  
SUPERCEDES DATE ...: February 24, 2005  
RTN NUMBER .....: 00000065 (Official Copy)

**ABBREVIATIONS USED IN THIS MSDS:**

TLV - THRESHOLD LIMIT VALUE	TWA - Time Weighted Average
STEL - SHORT TERM EXPOSURE LIMIT	TPQ - Threshold Planning Quantity
RQ - REPORTABLE QUANTITY	PEL - Permissible Exposure Limit
C - CEILING LIMIT	CAS - Chemical Abstract Service Number
NDA - NO DATA AVAILABLE	N/A - Not Applicable or Not Available

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**END OF MSDS**  
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