

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: Inconel Split Rings -Niranium  
Product Number: 808013 - 808016  
Chemical Name: Steel (Nickel based alloy)  
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

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***** EMERGENCY OVERVIEW *****
*
* DANGER
*
* Prolong & repeated overexposure to dust can lead to
* benign Pneumoconiosis. Nickel fumes may cause
* severe Pneumonitis and/or sensitization. High
* concentrations of Manganese dust can effect the
* central nervous system (apathy, drowsiness,
* weakness & other symptoms resembling Parkinson's
* disease).
*
*****

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NFPA Rating - Health:  
Flammability:  
Reactivity:  
Special Hazard: None

EYE:  
May be slightly irritating.



(section 2 continued)

**SKIN:**

May cause sensitization.

**INHALATION:**

May cause irritation of the upper respiratory passages.

**INGESTION:**

Ingestion is not considered a potential route of exposure.

**CHRONIC EFFECTS:**

Prolong and repeated overexposure can lead to benign Pneumoconiosis, sensitization and may effect the central nervous system producing symptoms resembling Parkinson's disease).

**REPRODUCTIVE HAZARDS:**

None.

**CARCINOGENICITY INFORMATION:**

Nickel and Chromium are listed by IARC and NTP as a carcinogen.

**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>
NICKEL	31.0 - 99.0 %	7440-02-0
ALUMINUM	< 5.0 %	7429-90-5
CHROMIUM	< 48.0 %	7440-47-3
COBALT	< 15.0 %	7440-48-4
COPPER , FUME	< 68.0 %	7440-50-8
COPPER, DUST	< 68.0 %	7440-50-8
MANGANESE, FUME	< 5.0 %	7439-96-5
MANGANESE, DUST	< 5.0 %	7439-96-5

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



(section 4 continued)

**EYE CONTACT FIRST AID:**

Flush eye with water for 15 minutes.

**SKIN CONTACT FIRST AID:**

Wash affected area immediately with large amounts of soap and water.

**INHALATION FIRST AID:**

Contact a physician. Remove from area of exposure.

**INGESTION FIRST AID:**

Ingestion is not considered a potential route of exposure.

## 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

**EXTINGUISHING MEDIA:**

Non-flammable.

**FIRE & EXPLOSION HAZARDS:**

The product in the solid state presents no fire or explosion hazard.

**FIRE FIGHTING INSTRUCTIONS:**

None.

**COMBUSTION PRODUCTS:**

None.

## 6. ACCIDENTAL RELEASE MEASURES

**SAFEGUARDS (PERSONNEL):**

If excessive dust is created, wear dust mask or respirator to keep exposure below the Permissible Exposure Level for particulate matter.

**LARGE SPILLS PROCEDURE:**

Normal precautions for inert or nuisance dust and particulates.



## 7. HANDLING AND STORAGE

### **HANDLING (PERSONNEL) :**

Use handling procedures that limit exposure to excessive airborne dust.

### **HANDLING (PHYSICAL ASPECTS) :**

Provide appropriate ventilation.

### **STORAGE PRECAUTIONS:**

Keep dry.

## 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:**

Chemical goggles are recommended to avoid contact with eyes.

### **SKIN PROTECTION REQUIREMENTS:**

Wear protective gloves to minimize skin contamination.

### **RESPIRATORY PROTECTION REQUIREMENTS:**

If airborne concentrations exceed the OSHA TWA, a NIOSH approved dust mask is recommended.



(section 8 continued)

**EXPOSURE GUIDELINES:**

**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>

**CHROMIUM**

OSHA PEL: 1 mg/m<sup>3</sup>  
OSHA TWA: .5 mg/m<sup>3</sup>

**COBALT**

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

**COPPER , FUME**

OSHA PEL: .1 mg/m<sup>3</sup>  
OSHA TWA: .2 mg/m<sup>3</sup>

**COPPER, DUST**

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

**MANGANESE, FUME**

OSHA PEL: 5 mg/m<sup>3</sup>  
OSHA TWA: 1 mg/m<sup>3</sup>  
OSHA Ceiling Limit: 5 mg/m<sup>3</sup>

**MANGANESE, DUST**

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

FORM .....: Solid  
COLOR ...: Grey - Black  
ODOR .....: None

**10. STABILITY AND REACTIVITY**

**STABILITY:**

Stable.

**POLYMERIZATION:**

Product will not undergo polymerization.

**INCOMPATIBILITY WITH OTHER MATERIALS:**

Avoid strong acids.



(section 10 continued)

**DECOMPOSITION:**

Decomposition will not occur.

**MISCELLANEOUS:**

Metallic dust and fumes may be produced during welding, burning, grinding and machining. A reaction will occur with the evolution of hydrogen gas on contact with acids.

**11. TOXICOLOGICAL INFORMATION**

**NICKEL**

Test Code: Intravenous LDLO  
Species: Dog  
Results: 10 mg/kg

Test Code: LDlo  
Species: Guinea Pig  
Results: 5 mg/kg

**CHROMIUM**

Test Code: Implant TDLO  
Species: Rat  
Results: 1200 micrograms/kg of body weight administered  
intermittently over a six week period.

**COBALT**

Test Code: Oral LD50  
Species: Rat  
Results: 1500 mg/kg

**COPPER , FUME**

Test Code: Oral TDLO  
Species: Human  
Results: 120 micrograms/ kg affects the gastrointestinal tract (may produce nausea and vomiting).

**COPPER, DUST**

Test Code: Oral TDLO  
Species: Human  
Results: 120 micrograms/ kg affects the gastrointestinal tract (may produce nausea and vomiting).

**COPPER**

Test Code: Implant TDLO  
Species: Rat  
Results: 250 mg/kg



**12. ECOLOGICAL INFORMATION**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:**

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

**14. TRANSPORT INFORMATION**

PRODUCT LABEL .....: Inconel Split Rings -Niranium  
D.O.T. SHIPPING NAME .....: N/A  
TECHNICAL SHIPPING NAME ...: N/A  
D.O.T. HAZARD CLASS .....: N/A  
UN NUMBER .....: N/A

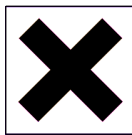
**15. REGULATORY INFORMATION**

**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)



**R-Phrases:**

R36/38 - Irritating to eyes and skin.  
R37 - Irritating to respiratory system.

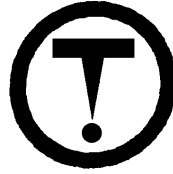
**S-Phrases:**

S28 - After contact with skin, wash immediately with plenty of soap and water.  
S36 - Wear suitable protective clothing.

**WHMIS Hazard Symbols:**

Class D2 - Materials Causing Other Toxic Effects





**Canadian Disclosure List**

NICKEL (7440-02-0)  
ALUMINUM (7429-90-5)  
CHROMIUM (7440-47-3)  
COBALT (7440-48-4)  
COPPER , FUME (7440-50-8)  
COPPER, DUST (7440-50-8)  
MANGANESE, FUME (7439-96-5)  
MANGANESE, DUST (7439-96-5)

**SARA Title III - Section 313**

NICKEL (7440-02-0)  
ALUMINUM (7429-90-5)  
CHROMIUM (7440-47-3)  
COBALT (7440-48-4)  
COPPER , FUME (7440-50-8)  
COPPER, DUST (7440-50-8)  
MANGANESE, FUME (7439-96-5)  
MANGANESE, DUST (7439-96-5)

**CERCLA Hazardous Substances**

NICKEL (7440-02-0) -- RQ 100 lb  
CHROMIUM (7440-47-3) -- RQ 5000 lb  
COPPER , FUME (7440-50-8) -- RQ 5000 lb  
COPPER, DUST (7440-50-8) -- RQ 5000 lb

**RCRA Hazardous Substances**

NICKEL (7440-02-0) -- RCRA Code: Unknown  
CHROMIUM (7440-47-3) -- RCRA Code: D007

**Title V**

NICKEL (7440-02-0)  
ALUMINUM (7429-90-5)  
CHROMIUM (7440-47-3)  
COBALT (7440-48-4)  
COPPER , FUME (7440-50-8)  
COPPER, DUST (7440-50-8)  
MANGANESE, FUME (7439-96-5)  
MANGANESE, DUST (7439-96-5)

**CA Proposition 65**

NICKEL (7440-02-0)  
COBALT (7440-48-4)





(section 15 continued)

**SC Toxic Air Pollutants List**

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

**16. OTHER INFORMATION**

PREPARED BY .....: Regina Lane  
APPROVED BY .....: John Nicpon  
TITLE .....: Quality Manager  
APPROVAL DATE .....: November 1, 2013  
SUPERCEDES DATE ...: April 17, 2003  
RTN NUMBER .....: 00000018 (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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