

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Nira-Bond C & B Alloy
Product Number: 804001, 804001K, 804001-5, 804001K25
Chemical Name: Base Metal 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)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: US Hazard Classification: Hazardous.

GHS Classification:

Respiratory or skin Sensitization - Category 1
Carcinogenicity-Category 2B

GHS Hazard Symbols:

Irritant, Health Hazard



GHS Hazard Statements:

H317 - May cause an allergic skin reaction.
H334 - May cause allergy or asthma symptoms of breathing difficulties if inhaled.

GHS Precautionary Statements:

P285 - In case of inadequate ventilation wear respiratory protection.
P302/352 - IF ON SKIN: Wash with plenty of soap and water.
P304/341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342/311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.



EYE:

May cause irritation. Metal particles may injure eye.

SKIN:

Molten metal may cause thermal burns. Sensitization (Nickel) may occur.

INHALATION:

Inhalation of metal fumes may cause mucous membrane and respiratory irritation. Severe overexposure may cause pneumonitis with delayed pulmonary edema. Pulmonary sensitization with asthma-like symptoms may also occur.

INGESTION:

This material is not known to cause acute toxicity. These metals are poorly absorbed through the intestinal tract.

CHRONIC EFFECTS:

Prolonged overexposure to fumes from this product can cause nasal sensitization with asthma-like symptoms and sensitization dermatitis.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

Nickel is listed by IARC as a Group 2B-Possibly Carcinogenic to Humans.

TARGET ORGAN:

Overexposure may cause lung damage.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

Preexisting skin and respiratory disease.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
NICKEL	77.0 %	7440-02-0
CHROMIUM	11.0 %	7440-47-3
MOLYBDENUM	4.0 %	7439-98-7
NIOBIUM	3.0 %	7440-03-1
ALUMINUM	3.0 %	7429-90-5
SILICON	2.0 %	7440-21-3

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:

Rinse thoroughly with water, holding the eye lids open to be sure material is washed out. Get medical attention if irritation persists.



SKIN CONTACT FIRST AID:

Wash thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop.

INHALATION FIRST AID:

If overexposed to dust or fumes, remove victim to fresh air. If not breathing, give artificial respiration or have qualified personnel give oxygen. Seek medical attention.

INGESTION FIRST AID:

If swallowed, immediately give 2 glasses of water. Do not induce vomiting. Seek medical attention.

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:

This material is not combustible.

EXTINGUISHING MEDIA:

Use dry sand or earth to smother fire.

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

Avoid breathing smoke, fumes, and decomposition products. As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

COMBUSTION PRODUCTS:

Oxides of metals.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Wear appropriate personal protective equipment.

INITIAL CONTAINMENT:

Pick up solid material.

SMALL SPILLS PROCEDURE:

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

7. HANDLING AND STORAGE



HANDLING (PERSONNEL):

Do not breathe metal fumes and dust. Use only with adequate ventilation. Do not allow dust to contact eyes, skin or clothing.

Wash thoroughly after handling. Do not eat, drink or smoke in the work area.

HANDLING (PHYSICAL ASPECTS):

Store in a cool dry area.

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. Wash hands thoroughly after handling.

RESPIRATORY PROTECTION REQUIREMENTS:

Atmospheric levels should be maintained below the exposure guideline.

EXPOSURE GUIDELINES:

NICKEL

OSHA PEL: 1 mg/m³

OSHA TWA: 1 mg/m³

CHROMIUM

OSHA PEL: 1 mg/m³

OSHA TWA: 1 mg/m³

MOLYBDENUM

OSHA PEL: 10 mg/m³

OSHA TWA: 5 mg/m³

ALUMINUM

OSHA PEL: 10 mg/m³

OSHA TWA: 10 mg/m³

SILICON

OSHA PEL: 10 mg/m³

OSHA TWA: 10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Solid
COLOR:	Metallic Grey
ODOR:	No odor

10. STABILITY AND REACTIVITY



STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

DECOMPOSITION:

Decomposition will not occur if handled and stored properly.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

Contact may cause mechanical irritation and possible injury.

ACUTE INHALATION EFFECTS:

Inhalation of dust may cause irritaton to the nose, throat and upper respiratory tract with coughing and shortness of breath.

CHRONIC EFFECTS /:

May cause respiratory disease.

NICKEL

Test Code: Oral LD50
Species: Guinea Pig
Results: 5 mg/kg

NIOBIUM

Test Code: LD50
Description: Oral
Species: Rat
Results: >10 gm/kg

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

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

14. TRANSPORT INFORMATION

PRODUCT LABEL: Nira-Bond C & B Alloy

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:

Harmful (Xn), Irritant (Xi)



R-Phrases:

- R23 - Toxic by inhalation.
- R40 - Possible risks of irreversible effects.
- R43 - May cause sensitization by skin contact.
- R49 - May cause cancer by inhalation.
- R36/37 - Irritating to eyes and respiratory system.

S-Phrases:

- S36/37 - Wear suitable protective clothing and gloves.
- S38 - In case of insufficient ventilation, wear suitable respiratory equipment.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S53 - Avoid exposure. Obtain special instructions before use.

WHMIS Hazard Symbols:

None

Canadian Disclosure List

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

SARA Title III - Section 313

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

CERCLA Hazardous Substances

- NICKEL (7440-02-0) -- RQ 100 lb
- CHROMIUM (7440-47-3) -- 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)
- CHROMIUM (7440-47-3)
- MOLYBDENUM (7439-98-7)



ALUMINUM (7429-90-5)

CA Proposition 65

NICKEL (7440-02-0)

SC Toxic Air Pollutants List

- NICKEL (7440-02-0)
- CHROMIUM (7440-47-3)
- MOLYBDENUM (7439-98-7)
- ALUMINUM (7429-90-5)
- SILICON (7440-21-3)

16. OTHER INFORMATION

PREPARED BY:	John Nicpon
APPROVED BY:	John Nicpon
TITLE:	Quality Manager
APPROVAL DATE:	March 9, 2015
SUPERCEDES DATE:	March 2, 2015
RTN NUMBER:	00000003 (Official Copy)

HMIS Rating:

Health - 2*
 Flammability - 0
 Reactivity - 0

NFPA Rating:

Health - 2
 Flammability - 0
 Reactivity - 0
 Special Hazard - N/A

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 SAFETY DATA SHEET

