

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Niranium X5
Product Number: 726-2213
Chemical Family: Metals
CAS Number: Blend

Company Identification

Niranium Co.
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: US Hazard Classification: Hazardous.

GHS Classification:

Respiratory or skin Sensitization - Category 1
Chronic aquatic toxicity - Category 4

GHS Hazard Symbols:

Irritant, Health Hazard, Environmentally Damaging



GHS Hazard Statements:

H317 - May cause an allergic skin reaction.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H413 - May cause long lasting harmful effects to aquatic life.

EYE:

Causes eye irritation.

SKIN:

Can cause moderate skin irritation. Allergic reactions are possible.



INGESTION:

Ingestion is not considered a potential route of exposure.

CHRONIC EFFECTS:

Pulmonary Disease may result due to long term exposure.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

Nickel is listed by IARC as a Group 2B-Possibly Carcinogenic to Humans. Beryllium is listed as a Group I-Known Human Carcinogen.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

Nickel sensitive persons may experience dermatitis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
CHROMIUM	13.0 %	7440-47-3
NICKEL	76.6 %	7440-02-0
MOLYBDENUM	5.5 %	7439-98-7
ALUMINUM	2.2 %	7429-90-5
BERYLLIUM	2.0 %	7440-41-7
COBALT	< 1.0 %	7440-48-4
TITANIUM	< 1.0 %	7440-32-6

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:

Flush eye with water for 15 minutes, holding the eyelids apart. Get medical attention if irritation develops or persists.

SKIN CONTACT FIRST AID:

Wash affected area with soap and water. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

If not breathing, give artificial respiration or have qualified personnel give oxygen. Get medical attention.

INGESTION FIRST AID:

If swallowed, do not induce vomiting. Get immediate 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

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

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

MISCELLANEOUS:

Elemental metals and metal oxides may be generated from melting in fire.

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. Protective clothing not normally required.

SMALL SPILLS PROCEDURE:

Same as large spill.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Do not breathe dust or fumes. Do not eat, drink or smoke in work area.

HANDLING (PHYSICAL ASPECTS):

Store in a tightly closed container in a cool, well ventilated location away from incompatible materials. Store away from food or beverages.

STORAGE PRECAUTIONS:

Segregate from mineral acids and oxidizing agents.

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 or safety glasses are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:



Wear leather work gloves.

RESPIRATORY PROTECTION REQUIREMENTS:

NIOSH approved respirators.

MISCELLANEOUS:

Grinding equipment should be provided with adequate exhaust system.

EXPOSURE GUIDELINES:

CHROMIUM

OSHA PEL: 1 mg/m³

OSHA TWA: 0.5 mg/m³

NICKEL

OSHA PEL: <.1 mg/m³

OSHA TWA: <.1 mg/m³

MOLYBDENUM

OSHA PEL: 15 mg/m³

OSHA TWA: 5 mg/m³

ALUMINUM

OSHA PEL: 10 mg/m³

OSHA TWA: 10 mg/m³

BERYLLIUM

OSHA PEL: .002 mg/m³

OSHA TWA: .002 mg/m³

COBALT

OSHA PEL: .1 mg/m³

OSHA TWA: 0.5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Solid (cylindrical)
COLOR:	Metallic Grey
ODOR:	No odor
SOLUBILITY IN WATER:	Negligible
SPECIFIC GRAVITY:	7.9 (Water = 1)
MELTING/FREEZING POINT:	2100 - 2300 F

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with mineral acids and oxidizing agents.

DECOMPOSITION:

Various metals and metal oxides may be generated from melting.



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: Oral LD50

Species: Guinea Pig

Results: 5 mg/kg

Test Code: Implant TDLO

Species: Rat

Results: 250 mg/kg

MOLYBDENUM

Test Code: Intraperitoneal LD50

Species: Rat

Results: 114 mg/kg

BERYLLIUM

Test Code: TCLO

Description: Inhalation

Species: Human

Results: 300 mg/m³ produced pulmonary effects.

Test Code: TDLO

Description: Intravenous

Species: Rabbit

Results: 20 mg/kg produced neoplastic effects.

COBALT

Test Code: Oral LD50

Species: Rat

Results: 1500 mg/kg

12. ECOLOGICAL INFORMATION

No information available.

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 X5
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), Dangerous For The Environment (N)



R-Phrases:

R36/37/38 - Irritating to eyes, respiratory system, and skin.
R43 - May cause sensitization by skin contact.
R49 - May cause cancer by inhalation.

S-Phrases:

None

WHMIS Hazard Symbols:

None

Canadian Disclosure List

CHROMIUM (7440-47-3)
NICKEL (7440-02-0)
MOLYBDENUM (7439-98-7)
ALUMINUM (7429-90-5)
BERYLLIUM (7440-41-7)
COBALT (7440-48-4)

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
BERYLLIUM (7440-41-7) -- RCRA Code: P015

Title V

CHROMIUM (7440-47-3)
NICKEL (7440-02-0)
MOLYBDENUM (7439-98-7)
ALUMINUM (7429-90-5)
BERYLLIUM (7440-41-7)
COBALT (7440-48-4)
TITANIUM (7440-32-6)

CA Proposition 65

NICKEL (7440-02-0)
BERYLLIUM (7440-41-7)
COBALT (7440-48-4)

SC Toxic Air Pollutants List

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

16. OTHER INFORMATION

PREPARED BY:	John Nicpon
APPROVED BY:	John Nicpon
TITLE:	Quality Manager
APPROVAL DATE:	April 12, 2016
SUPERCEDES DATE:	April 12, 2016
RTN NUMBER:	00061122 (Official Copy)

HMS Rating:

Health - 2*
Flammability - 0
Reactivity - 0

NFPA Rating:

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

ABBREVIATIONS USED IN THIS MSDS:



TLV - THRESHOLD LIMIT VALUE
STEL - SHORT TERM EXPOSURE LIMIT
RQ - REPORTABLE QUANTITY
C - CEILING LIMIT
NDA - NO DATA AVAILABLE

TWA - Time Weighted Average
TPQ - Threshold Planning Quantity
PEL - Permissible Exposure Limit
CAS - Chemical Abstract Service Number
N/A - Not Applicable or Not Available

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END OF SAFETY DATA SHEET

