

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: XL Pebble Alloy - Niranium
Product Number: 802009K
Chemical Name: Chrome Cobalt Alloy
Chemical Family: Metal Alloy
CAS Number: Blend

Company Identification

Niranium, 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: 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.

GHS Precautionary Statements:

P273 - Avoid release to the environment.
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.

P363 - Wash contaminated clothing before reuse.

EYE:

May causes eye irritation.

May cause skin irritation. May cause allergic skin reaction (sensitization).

SKIN:

May cause skin irritation. May cause allergic skin reaction (sensitization).

INHALATION:

May cause respiratory irritation. May cause allergic respiratory reaction (sensitization).

INGESTION:

Ingestion may cause anemia, headache, fever, nausea, abdominal pain and liver damage.

CHRONIC EFFECTS:

Prolonged or repeated skin contact may cause sensitization. Prolonged inhalation may cause lung damage, fibrotic lung disease, and effects on the cardiovascular system.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

Cobalt is listed by IARC or NTP as possible carcinogen. None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Directive.

TARGET ORGAN:

Overexposure may cause lung damage.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

Prolonged or repeated skin contact may cause sensitization. Prolonged inhalation may cause lung damage, fibrotic lung disease, and effects on the cardiovascular system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
COBALT	40.0 - 70.0 %	7440-48-4
CHROMIUM	10.0 - 40.0 %	7440-47-3
MOLYBDENUM	1.0 - 10.0 %	7439-98-7
SILICON	0.0 - 5.0 %	7440-21-3

XL Pebble Alloy - Niranium samples are manufactured for research and development purposes only. This product may not be listed on the Toxic Substance Control Act (TSCA) chemical substances inventory. Any use in a capacity other than research and development may constitute a violation of TSCA.

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 holding the eyelids apart to assure that material is washed out. Get medical attention if irritation persists.

SKIN CONTACT FIRST AID:

Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

If irritation or other symptoms develop, remove to fresh air. Get medical attention if symptoms persist.

INGESTION FIRST AID:

If conscious, wash mouth out with water. Do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious or drowsy person.

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 leather gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

Use a NIOSH approved organic vapor respirator when exposed to vapor from heated material.

EXPOSURE GUIDELINES:

COBALT

OSHA PEL: .1 mg/m³
OSHA TWA: .05 mg/m³

CHROMIUM

OSHA PEL: 1 mg/m³
OSHA TWA: .05 mg/m³

MOLYBDENUM

OSHA PEL: 15 mg/m³
OSHA TWA: 5 mg/m³

SILICON

OSHA PEL: 15 mg/m³
OSHA TWA: 10 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Pebble Drops
COLOR:	Silver
ODOR:	None
BOILING POINT:	2700 F
SPECIFIC GRAVITY:	8.1 (Water = 1)
MELTING/FREEZING POINT:	2450 F

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:



Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Mineral acids and strong oxidizing agents.

DECOMPOSITION:

Metal oxides may be generated from melting.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

Contact may cause mechanical irritation and possible injury.

SKIN EFFECTS:

May cause skin irritation. May cause allergic skin reaction (sensitization).

ACUTE ORAL EFFECTS:

Ingestion may cause anemia, headache, fever, nausea, abdominal pain, and liver damage.

ACUTE INHALATION EFFECTS:

May cause respiratory irritation. May cause allergic respiratory reaction (sensitization).

CHRONIC EFFECTS /:

Prolonged or repeated skin contact may cause sensitization. Prolonged inhalation may cause lung damage, fibrotic lung disease, and effects on the cardiovascular system.

COBALT

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

CHROMIUM

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

MOLYBDENUM

Test Code: Intraperitoneal LD50
Species: Rat
Results: 114 mg/kg

12. ECOLOGICAL INFORMATION

MISCELLANEOUS:

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

COBALT

Test Code: LC50
Description: 96 hr
Species: Brachydanio rerio
Results: > 100mg/L



13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

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

14. TRANSPORT INFORMATION

PRODUCT LABEL:	XL Pebble Alloy - 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:

Harmful (Xn), Irritant (Xi), Dangerous For The Environment (N)



R-Phrases:

R36/37/38 - Irritating to eyes, respiratory system, and skin.
R42/43 - May cause sensitization by inhalation and skin contact.
R53 - May cause long-term adverse effects in the aquatic environment.

S-Phrases:

S22 - Do not breathe dust.

WHMIS Hazard Symbols:

None

Canadian Disclosure List

COBALT (7440-48-4)
CHROMIUM (7440-47-3)
MOLYBDENUM (7439-98-7)

SARA Title III - Section 313

COBALT (7440-48-4)
CHROMIUM (7440-47-3)



CERCLA Hazardous Substances

CHROMIUM (7440-47-3) -- RQ 5000 lb

RCRA Hazardous Substances

CHROMIUM (7440-47-3) -- RCRA Code: D007

Title V

COBALT (7440-48-4)
CHROMIUM (7440-47-3)
MOLYBDENUM (7439-98-7)

CA Proposition 65

COBALT (7440-48-4)

SC Toxic Air Pollutants List

CHROMIUM (7440-47-3)
MOLYBDENUM (7439-98-7)
SILICON (7440-21-3)

16. OTHER INFORMATION

REASON FOR ISSUE: Add current date to MSDS
PREPARED BY: John Nicpon
APPROVED BY: John Nicpon
TITLE: Quality Manager
APPROVAL DATE: March 26, 2015
SUPERCEDES DATE: November 4, 2013
RTN NUMBER: 00000324 (Official Copy)

HMIS Rating:

Health - 2*
Flammability - 0
Reactivity - 0

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

