

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Nobilium Standard
Product Number: 0040K25, 0040, 0040K
Chemical Name: Chrome Cobalt Alloy
Chemical Family: Metal Alloy
CAS Number: Blend

Company Identification

Nobilium Co., Div. of CMP Industries LLC
413 North Pearl Street
Albany, NY 12207 USA
(518)-434-3147 (For product information)
(800)-833-2343 (For emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
*
* WARNING
*
* Cancer hazard.
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*****
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EYE:

Causes eye irritation.

SKIN:

May cause skin irritation.

INHALATION:

Dust may be irritating to respiratory tract.

INGESTION:

Ingestion is not considered a potential route of exposure.



(section 2 continued)

CHRONIC EFFECTS:

Persons with impaired pulmonary function should not be subjected to excessive airborne concentrations.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

Chromium and Cobalt are listed by IARC and/or NTP as carcinogens.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

Individuals with impaired pulmonary function should not be subjected to excessive airborne concentrations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

| <u>Chemical Name</u> | <u>Amount</u> | <u>CAS Number</u> |
|----------------------|---------------|-------------------|
| 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 |

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:

In case of contact, immediately flush eyes with plenty of water, holding the eyelids apart for at least 15 minutes.

INHALATION FIRST AID:

Remove to fresh air. If breathing is difficult, remove to fresh air and administer oxygen by qualified personnel. Seek medical attention.

INGESTION FIRST AID:

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.



(section 8 continued)

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: Ingot
COLOR: Silver
ODOR: None
BOILING POINT: 2700 F
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY: 8.2 (Water = 1)
MELTING/FREEZING POINT ...: 2278-2532 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

CHRONIC EFFECTS /:

May cause respiratory disease.

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.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

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

14. TRANSPORT INFORMATION

PRODUCT LABEL: Nobilium Standard
D.O.T. SHIPPING NAME: N/A
TECHNICAL SHIPPING NAME ...: N/A
D.O.T. HAZARD CLASS: N/A
UN NUMBER: N/A



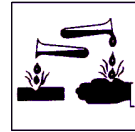
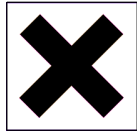
15. REGULATORY INFORMATION

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:

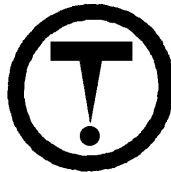
R36/37/38 - Irritating to eyes, respiratory system, and skin.

S-Phrases:

S3 - Keep in a cool place.

WHMIS Hazard Symbols:

Class D2 - Materials Causing Other Toxic Effects



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



(section 15 continued)

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

PREPARED BY: Phyll Tabone
 APPROVED BY: John Nicpon
 TITLE: Quality Manager
 APPROVAL DATE: October 31, 2013
 SUPERCEDES DATE ...: October 31, 2013
 RTN NUMBER: 00061037 (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

