

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: Nobilium Regular Ingot Alloy  
Product Number: 0101,0007  
Chemical Name: Chrome Cobalt Alloy  
Chemical Family: Metal Alloy  
CAS Number: Blend

### Company Identification

Nobilium, 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  
Carcinogenicity - Category 2  
Chronic aquatic toxicity - Category 4

### **GHS Hazard Symbols:**

Health Hazard



### **GHS Hazard Statements:**

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 Suspected of causing cancer.  
H413 - May cause long lasting harmful effects to aquatic life.

### **GHS Precautionary Statements:**

P201 - Obtain special instructions before use.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.



P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P281 - Use personal protective equipment as required.

**EYE:**

Causes eye irritation.

**SKIN:**

May cause skin irritation.

**INHALATION:**

Dust may be slightly irritating to respiratory tract.

**INGESTION:**

Ingestion is not considered a potential route of exposure.

**CHRONIC EFFECTS:**

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

**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.

**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:**

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

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 for at least 15 minutes. Get medical attention if irritation develops or persists.

**INHALATION FIRST AID:**

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



**INGESTION FIRST AID:**

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

## 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

**HANDLING (PERSONNEL):**

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

**HANDLING (PHYSICAL ASPECTS):**

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

## 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/m<sup>3</sup>  
OSHA TWA: 0.5 mg/m<sup>3</sup>

**CHROMIUM**

OSHA PEL: 1 mg/m<sup>3</sup>  
OSHA TWA: 0.5 mg/m<sup>3</sup>

**MOLYBDENUM**

OSHA PEL: 15 mg/m<sup>3</sup>  
OSHA TWA: 5 mg/m<sup>3</sup>

**SILICON**

OSHA PEL: 15 mg/m<sup>3</sup>  
OSHA TWA: 10 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Ingot
COLOR:	Silver
ODOR:	None
BOILING POINT:	2700 F
SPECIFIC GRAVITY:	8.2 (Water = 1)
MELTING/FREEZING POINT:	2550 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 Regular Ingot Alloy
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
10 = OSHA CEILING	

**EEC Symbols and Indications of Danger:**

Irritant (Xi)





**R-Phrases:**

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.

**Canadian Disclosure List**

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

**SARA Title III - Section 313**

Nobilium Regular Ingot Alloy (BLEND) --  
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

PREPARED BY:	John Nicpon
APPROVED BY:	John Nicpon
TITLE:	Quality Manager
APPROVAL DATE:	March 16, 2018
SUPERCEDES DATE:	March 9, 2015
RTN NUMBER:	00000221 (Official Copy)

**HMIS Rating:**

Health - 2\*



Flammability - 0  
Reactivity - 0

**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**

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