

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: NobilStar Ultra  
Product Number: 0013, 0016, 0013K25, 0014S  
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)-833-2343 (For emergencies)  
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  
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.  
P284 - 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:**

Causes eye irritation.

**SKIN:**

May cause skin irritation.

**INHALATION:**

Dust may be slightly irritating to eyes and respiratory tract.

**INGESTION:**

Ingestion is not considered a potential route of exposure.

**CHRONIC EFFECTS:**

Persons 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.

**TARGET ORGAN:**

Overexposure may cause lung damage.

**MEDICAL CONDITIONS AGGRAVATED 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
CHROMIUM	10.0 - 40.0 %	7440-47-3
MOLYBDENUM	1.0 - 10.0 %	7439-98-7
SILICON	0.0 - 5.0 %	7440-21-3
COBALT	40.0 - 70.0 %	7440-48-4

As defined under Sara 311 and 312, this product contains materials that are acute, chronic hazards.

**MISCELLANEOUS:**

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.

**SKIN CONTACT FIRST AID:**

Wash affected area with soap and water. If irritation persists seek medical attention.

**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:**

Swallow large amounts of water and do not induce vomiting. 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

**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.

## 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:**

**CHROMIUM**

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

OSHA TWA: .05 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>

**COBALT**

OSHA PEL: .1 mg/m<sup>3</sup>

OSHA TWA: .05 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Ingot
COLOR:	Silver
ODOR:	None
BOILING POINT:	2750 F
SOLUBILITY IN WATER:	Insoluble
SPECIFIC GRAVITY:	8.3 (Water = 1)
MELTING/FREEZING POINT:	2375 - 2500 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:**

No adverse effects are expected.

**ACUTE ORAL EFFECTS:**

No adverse effects expected for normal, incidental ingestion. Large amounts may cause gastrointestinal irritation.

**ACUTE INHALATION EFFECTS:**

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

**CHRONIC EFFECTS /:**

May cause respiratory disease.

**COBALT:**

Test Code: Oral LD50.

Species: Rat.

Results: 15-- 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.

**COBALT**

Test Code: LD50

Description: Oral



Species: Rat  
Results: 6174 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:	NobilStar Ultra
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.



R53 - May cause long-term adverse effects in the aquatic environment.  
R42/43 - May cause sensitization by inhalation and skin contact.

**S-Phrases:**

S22 - Do not breathe dust.

**WHMIS Hazard Symbols:**

None

**Canadian Disclosure List**

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

**SARA Title III - Section 313**

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

**CERCLA Hazardous Substances**

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

**RCRA Hazardous Substances**

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

**Title V**

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

**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 9, 2015
SUPERCEDES DATE:	March 2, 2015
RTN NUMBER:	00002039 (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  
RQ - REPORTABLE QUANTITY  
C - CEILING LIMIT  
NDA - NO DATA AVAILABLE

TPQ - THRESHOLD PLANNING QUANTITY  
PEL - PERMISSABLE EXPOSURE LIMIT  
CAS - CHEMICAL ABSTRACT SERVICE NUMBER  
N/A - NOT APPLICABLE OR NOT AVAILABLE

\*\*\*\*\*

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of CMP Industries LLC. The data on this sheet are related only to the specific material designated herein. CMP Industries LLC assumes no legal responsibility for use or reliance upon these data.

\*\*\*\*\*

**END OF SAFETY DATA SHEET**

\*\*\*\*\*

