

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: CB-30 Investment Powder - Nobilium  
Product Number: 2805, 2806, 2808, 2809, 2028, 2028-25, 2028-50, 2028-100, 2809-150  
Chemical Name: Silicon Dioxide  
Chemical Family: Silica Quartz  
CAS Number: Blend

### Company Identification

Nobilium Co., 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 1-703-527-3887 (CHEMTREC)

## 2. HAZARDS IDENTIFICATION

### **EMERGENCY OVERVIEW:**

**WARNING:** May cause eye irritation. Inhalation of dust may cause mucous membrane irritation. Prolonged over exposure to respirable crystalline silica may cause lung disease (silicosis) and increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure.

### **GHS Classification:**

Serious eye damage/eye irritation Category 2A  
Specific target organ toxicity-repeated exposure Category 2

### **GHS Hazard Symbols:**

Irritant, Health Hazard



### **GHS Hazard Statements:**

H319 - Causes serious eye irritation.  
H373-May cause damage to organs through prolonged or repeated exposure.

### **GHS Precautionary Statements:**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.



**EYE:**

Causes eye irritation.

**SKIN:**

May cause skin irritation.

**INHALATION:**

Causes respiratory tract irritation.

**INGESTION:**

Ingestion is not considered a potential route of exposure.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

Undue breathlessness, cough, sputum production, pain in the chest area.

**CHRONIC EFFECTS:**

Prolonged overexposure to respirable silica may cause lung disease(silicosis) and increase the risk of lung cancer.

**REPRODUCTIVE HAZARDS:**

None.

**CARCINOGENICITY INFORMATION:**

Crystalline silica quartz is listed as 'Carcinogenic to Humans' Group 1 by IARC and 'Known to be a Human Carcinogen' by NTP.

**MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:**

Individuals with pulmonary problems will be more susceptible to effects due to exposure.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**COMPONENT LISTING:**

Chemical Name	Amount	CAS Number
SILICON DIOXIDE (SILICA)	35.0 - 55.0 %	14808-60-7
CRISTOBALITE	20.0 - 40.0 %	14464-46-1
MAGNESIUM OXIDE	10.0 - 20.0 %	1309-48-4

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, lifting upper and lower lids, for at least 15 minutes. Get medical attention if irritation develops and persists.

**SKIN CONTACT FIRST AID:**

Wash skin with soap and water after use.



**INHALATION FIRST AID:**

If inhaled, remove to fresh air. If breathing is difficult, administer oxygen by qualified personnel. Get medical attention immediately.

**INGESTION FIRST AID:**

Large amounts may cause gastrointestinal discomfort. If swallowed, immediately give 2 glasses of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get 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

**FLAMMABLE PROPERTIES:**

Not Flammable under normal conditions.

**EXTINGUISHING MEDIA:**

Non-flammable. Use media appropriate to the surrounding fire.

**FIRE & EXPLOSION HAZARDS:**

None.

**FIRE FIGHTING INSTRUCTIONS:**

Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus in fires involving chemicals.

**COMBUSTION PRODUCTS:**

None.

## 6. ACCIDENTAL RELEASE MEASURES

**LARGE SPILLS PROCEDURE:**

Wear appropriate protective clothing and wear respirator. Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. Do not use compressed air. Report releases as required by local, state and federal authorities.

**SMALL SPILLS PROCEDURE:**

Same as large spill.

## 7. HANDLING AND STORAGE

**STORAGE PRECAUTIONS:**

Store in a dry and well ventilated place away from incompatible materials. Protect from physical damage.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EYE / FACE PROTECTION REQUIREMENTS:

Use safety glasses or chemical splash goggles.

### SKIN PROTECTION REQUIREMENTS:

None normally required.

### RESPIRATORY PROTECTION REQUIREMENTS:

If the exposure limits are exceeded a NIOSH approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.

### MISCELLANEOUS:

Use general or local ventilation.

### EXPOSURE GUIDELINES:

#### SILICON DIOXIDE (SILICA)

Recommended Exposure Limit: 0.05 mg/m<sup>3</sup>

OSHA PEL: 10 /% SiO<sub>2</sub> +2 TWA (respirable dust) mg/m<sup>3</sup>

OSHA TWA: 30 /% SiO<sub>2</sub> +2 TWA (total dust) mg/m<sup>3</sup>

ACGIH TWA: 0.025 mg/m<sup>3</sup>

#### CRISTOBALITE

OSHA PEL: 0.5(10/(SiO<sub>2</sub> +2)) Respirable Dust mg/m<sup>3</sup>

OSHA TWA: 0.5(30/%SiO<sub>2</sub> + 2)Total Dust mg/m<sup>3</sup>

ACGIH TWA: 0.025 (Respirable Dust) mg/m<sup>3</sup>

#### MAGNESIUM OXIDE

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

ACGIH TWA: 10 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Granular Particles
ODOR:	No odor
BOILING POINT:	4000 F
SPECIFIC GRAVITY:	2.65 (Water = 1)

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable.

### POLYMERIZATION:

Product will not undergo polymerization.

### INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with hydrofluoric acid.

## 11. TOXICOLOGICAL INFORMATION



**MAGNESIUM OXIDE**

Test Code: TCLO  
Species: Human  
Results: 400 mg/kg

**QUARTZ (SIO2)**

Test Code: LCLO  
Species: Human  
Results: 300 micrograms/m<sup>3</sup>/10 yr affects the liver.

**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:	CB-30 Investment Powder - Nobilium
D.O.T. SHIPPING NAME:	Silica sands - nonflammable solid.
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	

**REGULATORY DISCLOSURES:**

This product contains the following substances known to the State of California to cause cancer:

Crystalline Silica <90%.

**EEC Symbols and Indications of Danger:**

Harmful (Xn), Irritant (Xi)





**R-Phrases:**

R36/38 - Irritating to eyes and skin.  
R37 - Irritating to respiratory system.  
R20 - Harmful by inhalation.  
R40/20 - Harmful: Possible risk of irreversible effects through inhalation.

**S-Phrases:**

S3/9 - Keep in a cool, well-ventilated place.

**Canadian Disclosure List**

SILICON DIOXIDE (SILICA) (14808-60-7)  
CRISTOBALITE (14464-46-1)  
MAGNESIUM OXIDE (1309-48-4)

**SARA Title III - Section 313**

CB-30 Investment Powder - Nobilium (BLEND) --  
SILICON DIOXIDE (SILICA) (14808-60-7) --

**RCRA Hazardous Substances**

CB-30 Investment Powder - Nobilium (BLEND) --

**CA Proposition 65**

CB-30 Investment Powder - Nobilium (BLEND)  
SILICON DIOXIDE (SILICA) (14808-60-7)  
CRISTOBALITE (14464-46-1)

**16. OTHER INFORMATION**

PREPARED BY: John Nicpon  
APPROVED BY: John Nicpon  
TITLE: Quality Manager  
APPROVAL DATE: March 9, 2018  
SUPERCEDES DATE: February 25, 2015  
RTN NUMBER: 00000203 (Official Copy)

**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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