

MATERIAL 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 1-202-483-7616 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

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

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

HAZARDS DISCLOSURE

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.



3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
*
*                               WARNING                               *
*
* Persons with impaired pulmonary function should not          *
* be exposed to excessive airborne concentrations.              *
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POTENTIAL HEALTH EFFECTS

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:

Suspect cancer hazard (contains material which) may cause cancer.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

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



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:

Ingestion is not considered a potential route of exposure.

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)

OSHA PEL: .1 mg/m³

OSHA TWA: .1 mg/m³

CRISTOBALITE

OSHA PEL: .05 mg/m³

OSHA TWA: .05 mg/m³

MAGNESIUM OXIDE

OSHA PEL: 10 mg/m³

OSHA TWA: 5 mg/m³



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

SILICON DIOXIDE (SILICA)

Test Code: TCLO

Species: Human

Results: 6 mppcf/17.9 yrs. produces pulmonary fibrosis, cough and difficult breathing.

MAGNESIUM OXIDE

Test Code: TCLO

Species: Human

Results: 400 mg/kg

QUARTZ (SIO2)

Test Code: LCLO

Species: Human

Results: 300 micrograms/m³/10 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. TRANSPORTATION 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
09 = CANADIAN WHMIS	10 = OSHA Ceiling

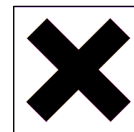
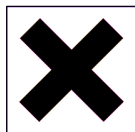
REGULATORY DISCLOSURES:

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.

S-Phrases:

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

WHMIS Hazard Symbols:

Class D2 - Materials Causing Other Toxic Effects





Canadian Disclosure List

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

SARA Title III - Section 313

SILICON DIOXIDE (SILICA) (14808-60-7) --

CA Proposition 65

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: June 24, 2011
SUPERCEDES DATE ...: June 24, 2011
MSDS NUMBER: 203
RTN NUMBER: 00000203 (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

