

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: CB-30 Investment Powder - Ticonium
Product Number: 62151, 62152, 62154, 62155,
62097, 62096-25
Chemical Name: Silicon Dioxide
Chemical Family: Silica Quartz
CAS Number: Blend

Company Identification

Ticonium 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

| <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 | 0.0 - 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 exposure may cause delayed injury to the pulmonary system.

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.



(section 4 continued)

SKIN CONTACT FIRST AID:

Wash skin with soap and water.

If cool wax contacts skin, wash with warm soapy water.

INHALATION FIRST AID:

If inhaled, remove to fresh air. If breathing is difficult, administer oxygen. Contact a physician.

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.

FIRE & EXPLOSION HAZARDS:

None.

FIRE FIGHTING INSTRUCTIONS:

None.

COMBUSTION PRODUCTS:

None.

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILLS PROCEDURE:

Vacuum spilled material or collect in the most convenient dustless safe manner.

Wear respirator and protective clothing as appropriate. Shut off source of leak. Dike & contain. Allow wax to cool and remove as solid.



(section 6 continued)

SMALL SPILLS PROCEDURE:

Same as large spill.

7. HANDLING AND STORAGE

STORAGE PRECAUTIONS:

Store in a dry and well ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE / FACE PROTECTION REQUIREMENTS:

Use safety glasses or chemical splash goggles.

SKIN PROTECTION REQUIREMENTS:

Wear work gloves.

RESPIRATORY PROTECTION REQUIREMENTS:

If exposure exceeds exposure limits, use NIOSH approved respirator.

MISCELLANEOUS:

Use general or local ventillation.

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 hydroflouric 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

Test Code: LCLO

Species: Human

Results: 300 micrograms/m³/10 yr effects 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 - Ticonium
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

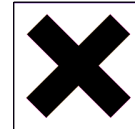
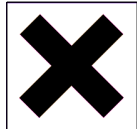
15. REGULATORY INFORMATION

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 |

EEC Symbols and Indications of Danger:

Harmful (Xn), Irritant (Xi)



R-Phrases:

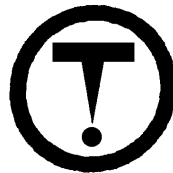
R36/38 - Irritating to eyes and skin.
R37 - Irritating to respiratory system.
R20 - Harmful by inhalation.

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) --



16. OTHER INFORMATION

PREPARED BY: Ylvonne Thomas
APPROVED BY: Abdul Khan
TITLE: Q. C. Manager
APPROVAL DATE: March 17, 2003
SUPERCEDES DATE ...: August 14, 1997
RTN NUMBER: 00000089 (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

