

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: Pre-Coat Paint On - Niranium  
Product Number: 805005  
Chemical Family: Flint Quartz  
CAS Number: Blend

### Company Identification

Niranium 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>
ZIRCON	30.0 %	14940-68-2
CRYSTALLINE QUARTZ, DUST	30.0 %	14808-60-7

(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

```
***** EMERGENCY OVERVIEW *****
*
*                               WARNING                               *
*
* Overexposure may lead to Pulmonary injury.                       *
*
*****
```

#### POTENTIAL HEALTH EFFECTS

**EYE:**

May cause slight irritation.

**SKIN:**

May cause skin irritation. May cause allergic skin reaction.

**INHALATION:**

May cause irritation of the upper respiratory passages.

**INGESTION:**

Ingestion is not considered a potential route of exposure.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

Symptoms of overexposure are undue breathlessness, wheezing, cough and sputum production.

**CHRONIC EFFECTS:**

Overexposure or repeated by inhalation of the dust may lead to fibrosis of the lung and may affect other areas of the pulmonary system. This will increase an individuals susceptibility to pulmonary tuberculosis. Progressive mass fibrosis may be accompanied by right heart enlargement, heart failure & pulmonary failure. Smoking aggravates the effects of exposure.

**REPRODUCTIVE HAZARDS:**

None.

**CARCINOGENICITY INFORMATION:**

Listed by IARC as a carcinogen.

**MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:**

Pulmonary function may be reduced by inhalation of respirable crystalline silica.



#### 4. FIRST AID MEASURES

**EYE CONTACT FIRST AID:**

Flush eye with water for 15 minutes. Contact a physician if irritation persists.

**SKIN CONTACT FIRST AID:**

Wash skin with soap and water.

**INHALATION FIRST AID:**

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

**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:**

No known unusual hazards in a fire/explosion situation.

**FIRE FIGHTING INSTRUCTIONS:**

None.

#### 6. ACCIDENTAL RELEASE MEASURES

**LARGE SPILLS PROCEDURE:**

Flush with water, mop and absorb spill.

**SMALL SPILLS PROCEDURE:**

Same as large spill.



## 7. HANDLING AND STORAGE

### HANDLING (PERSONNEL):

Avoid breakage of bagged material or spills or bulk material. Practice good housekeeping.

### HANDLING (PHYSICAL ASPECTS):

Do not permit dust to collect on walls, floors, sills, ledges, machinery or equipment.

### STORAGE PRECAUTIONS:

Store in a dry area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles are recommended to avoid contact with eyes.

### SKIN PROTECTION REQUIREMENTS:

Wear protective gloves to minimize skin contamination.

### RESPIRATORY PROTECTION REQUIREMENTS:

Wear NIOSH/MSHA approved respiratory protection.

### EXPOSURE GUIDELINES:

#### ZIRCON

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

#### CRYSTALLINE QUARTZ, DUST

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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Paste  
COLOR .....: Green  
ODOR .....: Little  
BOILING POINT .....: 4020 F  
SOLUBILITY IN WATER ...: Insoluble  
SPECIFIC GRAVITY .....: 2.92 (Water = 1)

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable.



(section 10 continued)

**POLYMERIZATION:**

Product will not undergo polymerization.

**INCOMPATIBILITY WITH OTHER MATERIALS:**

Avoid powerful oxidizing agents.

**DECOMPOSITION:**

Silica will dissolve in hydrochloric acid and produce a corrosive gas.

## 11. TOXICOLOGICAL INFORMATION

### ZIRCON

Test Code: Inhalation Study

Species: Rat

Results: 12.4 or 51.6 mg/m<sup>3</sup> of quartz produced lung tumors.

### CRYSTALLINE QUARTZ, DUST

Test Code: TCL0

Species: Human

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

### QUARTZ (SiO<sub>2</sub>)

Test Code: LCLO

Species: Human

Results: 300 micrograms/m<sup>3</sup>/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 .....: Pre-Coat Paint On - Niranium  
D.O.T. SHIPPING NAME .....: N/A  
TECHNICAL SHIPPING NAME ...: N/A  
D.O.T. HAZARD CLASS .....: N/A  
UN NUMBER .....: N/A

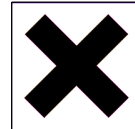
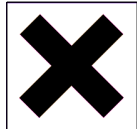
**15. REGULATORY INFORMATION**

**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:**

Harmful (Xn), Irritant (Xi)



**R-Phrases:**

R20 - Harmful by inhalation.  
R37 - Irritating to respiratory system.

**S-Phrases:**

S3/7/9 - Keep container tightly closed in a cool, well-ventilated place.

**WHMIS Hazard Symbols:**

Class D2 - Materials Causing Other Toxic Effects



**Canadian Disclosure List**

ZIRCON (14940-68-2)  
CRYSTALLINE QUARTZ, DUST (14808-60-7)

**SARA Title III - Section 313**

CRYSTALLINE QUARTZ, DUST (14808-60-7) --



**16. OTHER INFORMATION**

PREPARED BY .....: Regina Lane  
APPROVED BY .....: Abdul Khan  
TITLE .....: Q. C. Manager  
APPROVAL DATE .....: July 26, 2006  
SUPERCEDES DATE ...: April 17, 2003  
MSDS NUMBER .....: 805005  
RTN NUMBER .....: 00000045 (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**  
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