

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: Niraloid®  
Product Number: 806008  
Chemical Family: Dental duplicating material  
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>
PROPYLENE GLYCOL	45.0 - 50.0 %	57-55-6
SILICA	< 5.0 %	61790-53-2

(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 *****
*
* CAUTION
*
* May cause irritation of the eyes.
*
*****
```

#### POTENTIAL HEALTH EFFECTS

**EYE:**

May cause eye irritation.

**SKIN:**

Allergic reactions are possible.

**INHALATION:**

Vapors may be slightly irritating to respiratory tract.

**INGESTION:**

Irritating to mouth, throat, and stomach.

**CHRONIC EFFECTS:**

Repeated excessive ingestion may cause central nervous system problems.

**REPRODUCTIVE HAZARDS:**

None.

**CARCINOGENICITY INFORMATION:**

No known cancer hazards.

**MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:**

Not determined.

### 4. FIRST AID MEASURES

**EYE CONTACT FIRST AID:**

Irrigate immediately with water.

**SKIN CONTACT FIRST AID:**

Immediately flush with large amounts of water. Get medical attention if irritation develops or persists.



(section 4 continued)

**INHALATION FIRST AID:**

Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen.

**INGESTION FIRST AID:**

Get immediate medical attention.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

COC Flash Point: N/A

Autoignition Temperature: N/A

**FLAMMABLE LIMITS IN AIR**

LEL: None

UEL: None

**FLAMMABLE PROPERTIES:**

Not Flammable.

**EXTINGUISHING MEDIA:**

Use extinguishing media appropriate for surrounding fire.

**FIRE & EXPLOSION HAZARDS:**

None.

**FIRE FIGHTING INSTRUCTIONS:**

Avoid breathing smoke, fumes, and decomposition products. As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

**COMBUSTION PRODUCTS:**

None.

**6. ACCIDENTAL RELEASE MEASURES**

**SAFEGUARDS (PERSONNEL):**

Wear appropriate personal protective equipment.

**LARGE SPILLS PROCEDURE:**

If molten allow to cool and then scrape up. Use soap and water to remove residue.



(section 6 continued)

**SMALL SPILLS PROCEDURE:**

Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**7. HANDLING AND STORAGE**

**HANDLING (PERSONNEL):**

Avoid inhalation and ingestion of this material. Avoid eye contact.

**HANDLING (PHYSICAL ASPECTS):**

Store in a cool dry area. Exercise reasonable care and caution.

**STORAGE PRECAUTIONS:**

Store in a tightly closed container.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:**

For molten material, avoid spilling hot liquid.

**EYE / FACE PROTECTION REQUIREMENTS:**

Not required.

**SKIN PROTECTION REQUIREMENTS:**

Use impervious gloves when repeated contact could occur.

**RESPIRATORY PROTECTION REQUIREMENTS:**

Not required.

**EXPOSURE GUIDELINES:**

**PROPYLENE GLYCOL**

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

**SILICA**

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



## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Gel  
COLOR .....: Pink  
ODOR .....: No odor  
BOILING POINT .....: 220 F  
VAPOR PRESSURE .....: .08 mm Hg  
VAPOR DENSITY .....: 2.62 (Air = 1)  
SOLUBILITY IN WATER ...: Slight  
SPECIFIC GRAVITY .....: 1.4 (Water = 1)  
PH .....: 7.0

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable.

### POLYMERIZATION:

Product will not undergo polymerization.

### INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with oxidizing agents.

### CONDITIONS TO AVOID:

Propion aldehyde, carbon mono oxide in the presence of limited oxygen.

## 11. TOXICOLOGICAL INFORMATION

### CHRONIC EFFECTS /:

May cause respiratory disease.

### PROPYLENE GLYCOL

Test Code: Eye  
Species: Rabbit  
Results: 100 mg caused mild irritation.

Test Code: Eye  
Species: Rabbit  
Results: 500 mg/24 hr caused mild irritation.

Test Code: Acute Dermal Exposure  
Species: Human  
Results: 104 mg applied intermittently for 3 days produced moderate irritation.



(section 11 continued)

Test Code: LD50  
Description: Skin  
Species: Rabbit  
Results: 20.8 g/kg

Test Code: Oral LD50  
Species: Rat  
Results: 20 g/kg

Test Code: Oral TDLO  
Description: Child  
Species: Human  
Results: 79 g/kg intermittently caused changes in surface EEG,  
general anesthesia and convulsions or effect the seizure  
threshold.

Test Code: Fibroblast  
Description: Mutagenicity  
Species: Hamster  
Results: 32 g/L cytogenic analysis.

Test Code: Inhalation Toxicity  
Species: Rat  
Results: 2180 mg/m<sup>3</sup>/6 hr for 90 days caused changes in food  
intake, spleen weight and biochemical changes.

## 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 .....: Niraloid®  
D.O.T. SHIPPING NAME .....: Non-toxic, Non-hazardous  
TECHNICAL SHIPPING NAME ...: N/A  
D.O.T. HAZARD CLASS .....: Non-Hazardous  
UN NUMBER .....: N/A



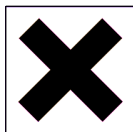
## 15. REGULATORY INFORMATION

### 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)



### R-Phrases:

R36/38 - Irritating to eyes and skin.

### S-Phrases:

S24/25 - Avoid contact with skin and eyes.

### WHMIS Hazard Symbols:

None

### Canadian Disclosure List

PROPYLENE GLYCOL (57-55-6)

## 16. OTHER INFORMATION

PREPARED BY .....: Ylvonne Thomas  
APPROVED BY .....: Abdul Khan  
TITLE .....: Q. C. Manager  
APPROVAL DATE .....: July 26, 2006  
SUPERCEDES DATE ...: April 17, 2003  
MSDS NUMBER .....: 806008  
RTN NUMBER .....: 00000027 (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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