

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Denturion Res. Powder - Nobilium
Chemical Name: Copolymers
Chemical Family: N/A
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

| <u>Chemical Name</u> | <u>Amount</u> | <u>CAS Number</u> |
|----------------------|---------------|-------------------|
| PARTICULATES, NOC | < 99.0 % | SEQ-23-5 |
| DIALKYL PHTHALATE | < 2.0 % | 84-74-2 |
| TITANIUM DIOXIDE | < 1.0 % | 13463-67-7 |
| CADMIUM PIGMENTS | < 1.0 % | 7440-43-9 |

(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.

MISCELLANEOUS:

The health hazards listed in this MSDS are representative of the effects of the decomposed product. The product used properly has no immediated health hazards.



3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
*
*                               DANGER                               *
*
* Dust or extremely irritating to respiratory tract.             *
* Cancer hazard. Causes skin and eye burns.                      *
*
*****
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POTENTIAL HEALTH EFFECTS

EYE:

Can cause severe eye irritation.

SKIN:

Can cause moderate skin irritation.

INHALATION:

Can cause severe respiratory irritation. Can cause severe central nervous system depression (including unconsciousness).

INGESTION:

Harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE:

Headaches, nausea, staggering gait, confusion drowsiness and unconsciousness.

CHRONIC EFFECTS:

Prolonged and repeated exposure to the decomposited products may cause permanent, irreversible eye damage, brain and nervous system damage, allergic skin reaction, liver and kidney damage.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

Possible cancer hazard (contains material which) may cause cancer based on animal data.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:

Individuals with pre-existing skin disorders may be more susceptible to severe irritation and possible sensitization.



4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes. Get medical attention.

SKIN CONTACT FIRST AID:

Wash affected area immediately with large amounts of soap and water. Get medical attention.

INHALATION FIRST AID:

Remove to fresh air. Get medical attention.

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: N/A

UEL: N/A

FLAMMABLE PROPERTIES:

Avoid extinguishing methods which may generate dust clouds. water stream can disperse dust into into air, producing a fire hazard and possible explosion hazard if exposed to ignition source.

EXTINGUISHING MEDIA:

Water , Carbon Dioxide and dry chemical.

FIRE & EXPLOSION HAZARDS:

Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are the same as those of coal dust. Firefighters should wear self-contained breathing apparatus.

FIRE FIGHTING INSTRUCTIONS:

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

COMBUSTION PRODUCTS:

Acrylate, Methacrylate & Oxides of carbon.



6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction.

LARGE SPILLS PROCEDURE:

Sweep up to avoid slipping hazard. Keep airborne particulate at a minimum when cleaning up spills.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Avoid prolonged or repeated contact with skin. Wash hands and face before eating, drinking and smoking.

HANDLING (PHYSICAL ASPECTS):

Store in a cool dry area. Keep container closed to prevent water absorption and contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE / FACE PROTECTION REQUIREMENTS:

Wear safety glasses or chemical goggles.

SKIN PROTECTION REQUIREMENTS:

Protective gloves if hot plastic is handled.

RESPIRATORY PROTECTION REQUIREMENTS:

Use type for particulates not otherwise classified, if needed.

MISCELLANEOUS:

Use good local exhaust at processing equipment. When processing at high temperatures, the processing equipment should be well ventilated.



(section 8 continued)

EXPOSURE GUIDELINES:

PARTICULATES, NOC

OSHA PEL: 15 mg/m³

OSHA TWA: 15 mg/m³

DIALKYL PHTHALATE

OSHA PEL: 5 mg/m³

OSHA TWA: 5 mg/m³

TITANIUM DIOXIDE

OSHA PEL: 15 mg/m³

OSHA TWA: 10 mg/m³

CADMIUM PIGMENTS

OSHA PEL: .2 mg/m³

OSHA TWA: .05 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Powder
COLOR: Pink
ODOR: Faint Odor
SOLUBILITY IN WATER ...: Insoluble
SPECIFIC GRAVITY: 1.25 (Water = 1)

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with strong oxidizing agents.

DECOMPOSITION:

Decomposition produces acrylate, Methacrylate and Oxides of carbon.

CONDITIONS TO AVOID:

Heating above 240°C, 464°F.



11. TOXICOLOGICAL INFORMATION

DIALKYL PHTHALATE

Test Code: Acute Oral Toxicity
Species: Human
Results: 140 mg/kg caused hallucinations, distorted perceptions, nausea, vomiting and damage to the kidneys and bladder.

Test Code: LD₅₀
Species: Rat
Results: 6 g/kg

Test Code: LC₅₀
Species: Rat
Results: 4250 mg/kg

Test Code: Multiple Dosage, Oral
Description: Administered intermittently for 14 days.
Species: Rat
Results: 28 g/kg caused changes in testicular weight and death.

Test Code: Multiple Dosage, Oral
Description: Administered continuously for 1 year.
Species: Rat
Results: 22.75 mg/kg affected food intake and caused death.

TITANIUM DIOXIDE

Test Code: Acute Dermal Exposure
Description: Intermittent exposure over 3 days.
Species: Human
Results: 300 micrograms produced mild irritation.

Test Code: Multiple Dosage, Oral
Species: *S. Typhimurium*
Results: 100 micrograms/plate caused mutation.

CADMIUM PIGMENTS

Test Code: LC₅₀
Species: Human
Results: 39 mg/kg/20 min. produced cardiac changes, thrombosis and respiratory depression.

Test Code: TCLO
Description: 6 hour doses over 2 yrs.
Species: Rat
Results: 250 mg/kg produced tumors in the thorax and respiratory tract.



(section 11 continued)

Test Code: Oral LD50
Species: Rat
Results: 225 mg/kg

Test Code: LCLO
Description: Over 20 years.
Species: Woman
Results: 129 micrograms/m³ produced lung tumors.

Test Code: TCLO
Description: Over 8.6 years.
Species: Man
Results: 88 micrograms/m³ caused ureter toxicity with protein in the urine.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

Dialkyl Phthalate undergoes biodegradation if released to soil. If released to water, biodegrades in two days to greater than 2 weeks. If released to the air will exist in vapor form. Will react with hydroxyl radicals (2 hrs). Will also settle out physically in washout.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

This product contains Dialkyl Phthalates. Incinerate material in accordance with all local, state/provincial, and national regulations.

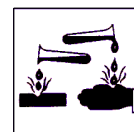
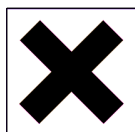
14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Denturion Res. Powder - Nobilium
D.O.T. SHIPPING NAME: Synthetic gum resin granular, noibn nmfc item # 4
TECHNICAL SHIPPING NAME ...: N/A
D.O.T. HAZARD CLASS: N/A
UN NUMBER: N/A

15. REGULATORY INFORMATION

EEC Symbols and Indications of Danger:

Irritant (Xi), Corrosive (C)



(section 15 continued)

R-Phrases:

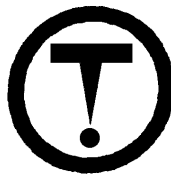
R38 - Irritating to skin.
R34 - Causes burns.

S-Phrases:

S16 - Keep away from sources of ignition. No smoking.
S3 - Keep in a cool place.
S8 - Keep container dry.

WHMIS Hazard Symbols:

Class B - Flammable and Combustible Material, Class D2 - Materials
Causing Other Toxic Effects, Class E - Corrosive Material



Canadian Disclosure List

DIALKYL PHTHALATE (84-74-2)
CADMIUM PIGMENTS (7440-43-9)

SARA Title III - Section 313

DIALKYL PHTHALATE (84-74-2)
CADMIUM PIGMENTS (7440-43-9)

CERCLA Hazardous Substances

DIALKYL PHTHALATE (84-74-2) -- RQ 10 lb
CADMIUM PIGMENTS (7440-43-9) -- RQ 10 lb

RCRA Hazardous Substances

DIALKYL PHTHALATE (84-74-2) -- RCRA Code: U069
CADMIUM PIGMENTS (7440-43-9) -- RCRA Code: D006

Title V

DIALKYL PHTHALATE (84-74-2)
CADMIUM PIGMENTS (7440-43-9)

SC Toxic Air Pollutants List

DIALKYL PHTHALATE (84-74-2)
CADMIUM PIGMENTS (7440-43-9)



16. OTHER INFORMATION

PREPARED BY: Ylvonne Thomas
APPROVED BY: Abdul Khan
TITLE: Q. C. Manager
APPROVAL DATE: June 21, 2006
SUPERCEDES DATE ...: May 30, 2002
RTN NUMBER: 00000297 (Official Copy)

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END OF MSDS

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