

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Ticonium Premium 100 Partial Denture Alloy - Regular
Product Number: P100
Chemical Name: Nickel Chrome Alloy
Chemical Family: Metals
CAS Number: Blend

Company Identification

Ticonium, 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. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING: US Hazard Classification: Hazardous.

GHS Classification:

Respiratory or skin Sensitization - Category 1
Carcinogenicity-Category 2B

GHS Hazard Symbols:

Irritant, Health Hazard



GHS Hazard Statements:

H317 - May cause an allergic skin reaction.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

EYE:

Causes eye irritation.

SKIN:

Can cause moderate skin irritation. Allergic reactions are possible.



INHALATION:

Dust may be slightly irritating to respiratory tract.

INGESTION:

Ingestion is not considered a potential route of exposure.

CHRONIC EFFECTS:

Pulmonary Disease may result due to long term exposure.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

Cancer hazard (contains material which) can cause cancer. Nickel, and beryllium are listed by IARC as carcinogens. Nickel and beryllium are listed by NTP as carcinogens.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Nickel sensitive persons may experience dermatitis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
CHROMIUM	16.0 %	7440-47-3
NICKEL	72.0 %	7440-02-0
MOLYBDENUM	5.0 %	7439-98-7
MANGANESE	3.2 %	7439-96-5
ALUMINUM	3.0 %	7429-90-5
BERYLLIUM	0.8 %	7440-41-7

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.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eyes promptly with water and consult physician if irritation is apparent.

SKIN CONTACT FIRST AID:

Wash affected area with soap and water. Get medical attention if irritation develops or persists.

INHALATION FIRST AID:

Remove to fresh air. If breathing is difficult, remove to fresh air and have qualified personnel provide oxygen.

INGESTION FIRST AID:

Do not induce vomiting. Contact a physician. Never give anything by mouth to an unconscious person.

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

FIRE & EXPLOSION HAZARDS:

No known unusual hazards in a fire/explosion situation.

FIRE FIGHTING INSTRUCTIONS:

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

MISCELLANEOUS:

Elemental metals and metal oxides may be generated from melting in fire.

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILLS PROCEDURE:

In solid form this material poses no special clean up problems. Remove dust by vacuuming or wet sweeping. Protective clothing not normally required.

SMALL SPILLS PROCEDURE:

Same as large spill.

7. HANDLING AND STORAGE

HANDLING (PERSONNEL):

Do not breathe dust or fumes. Do not eat, drink or smoke in work area.

HANDLING (PHYSICAL ASPECTS):

Store in a tightly closed container in a cool, well ventilated location away from incompatible materials. Store away from food or beverages.

STORAGE PRECAUTIONS:

Segregate from mineral acids and oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

EYE / FACE PROTECTION REQUIREMENTS:

Chemical goggles or safety glasses are recommended to avoid contact with eyes.

SKIN PROTECTION REQUIREMENTS:



Wear leather work gloves.

RESPIRATORY PROTECTION REQUIREMENTS:

NIOSH approved respirators.

MISCELLANEOUS:

Grinding equipment should be provided with adequate exhaust system.

EXPOSURE GUIDELINES:

CHROMIUM

OSHA PEL: 1 mg/m³

OSHA TWA: 0.5 mg/m³

NICKEL

OSHA PEL: <.1 mg/m³

OSHA TWA: <.1 mg/m³

MOLYBDENUM

OSHA PEL: 15 mg/m³

OSHA TWA: 5 mg/m³

MANGANESE

OSHA PEL: 5 mg/m³

OSHA TWA: 0.2 mg/m³

ALUMINUM

OSHA PEL: 10 mg/m³

OSHA TWA: 10 mg/m³

BERYLLIUM

OSHA PEL: .002 mg/m³

OSHA TWA: .002 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Solid (cylindrical)
COLOR:	Metallic Grey
ODOR:	No odor
SOLUBILITY IN WATER:	Negligible
SPECIFIC GRAVITY:	8.0 (Water = 1)

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with mineral acids and oxidizing agents.

DECOMPOSITION:

Various metals and metal oxides may be generated from melting.



11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

Contact may cause mechanical irritation and possible injury.

SKIN EFFECTS:

No adverse effects are expected.

ACUTE ORAL EFFECTS:

No adverse effects expected for normal, incidental ingestion. Large amounts may cause gastrointestinal irritation.

ACUTE INHALATION EFFECTS:

Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.

CHRONIC EFFECTS /:

May cause respiratory disease.

CHROMIUM

Test Code: Implant TDLO

Species: Rat

Results: 1200 micrograms/kg of body weight administered intermittently over a six week period.

NICKEL

Test Code: Intravenous LDLO

Species: Dog

Results: 10 mg/kg

Test Code: Oral LD50

Species: Guinea Pig

Results: 5 mg/kg

Test Code: Implant TDLO

Species: Rat

Results: 250 mg/kg

MOLYBDENUM

Test Code: Intraperitoneal LD50

Species: Rat

Results: 114 mg/kg

MANGANESE

Test Code: TCLO

Description: Inhalation

Species: Human

Results: 2300 micrograms/m³

BERYLLIUM

Test Code: TCLO

Description: Inhalation

Species: Human

Results: 300 mg/m³ produced pulmonary effects.



Test Code: TDLO
Description: Intravenous
Species: Rabbit
Results: 20 mg/kg produced neoplastic effects.

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. TRANSPORT INFORMATION

PRODUCT LABEL:	Ticonium Premium 100 Partial Denture Alloy - Regular
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:

R36/37/38 - Irritating to eyes, respiratory system, and skin.
R43 - May cause sensitization by skin contact.
R49 - May cause cancer by inhalation.

S-Phrases:

S22 - Do not breathe dust.



WHMIS Hazard Symbols:

None

Canadian Disclosure List

CHROMIUM (7440-47-3)
NICKEL (7440-02-0)
MOLYBDENUM (7439-98-7)
MANGANESE (7439-96-5)
ALUMINUM (7429-90-5)
BERYLLIUM (7440-41-7)

SARA Title III - Section 313

CHROMIUM (7440-47-3)
NICKEL (7440-02-0)
MANGANESE (7439-96-5)
ALUMINUM (7429-90-5)
BERYLLIUM (7440-41-7)

CERCLA Hazardous Substances

CHROMIUM (7440-47-3) -- RQ 5000 lb
NICKEL (7440-02-0) -- RQ 100 lb
BERYLLIUM (7440-41-7) -- RQ 10 lb

RCRA Hazardous Substances

CHROMIUM (7440-47-3) -- RCRA Code: D007
NICKEL (7440-02-0) -- RCRA Code: Unknown
BERYLLIUM (7440-41-7) -- RCRA Code: P015

Title V

CHROMIUM (7440-47-3)
NICKEL (7440-02-0)
MOLYBDENUM (7439-98-7)
MANGANESE (7439-96-5)
ALUMINUM (7429-90-5)
BERYLLIUM (7440-41-7)

CA Proposition 65

NICKEL (7440-02-0)
BERYLLIUM (7440-41-7)

SC Toxic Air Pollutants List

CHROMIUM (7440-47-3)
NICKEL (7440-02-0)
MOLYBDENUM (7439-98-7)
ALUMINUM (7429-90-5)
BERYLLIUM (7440-41-7)

16. OTHER INFORMATION

PREPARED BY:	John Nicpon
APPROVED BY:	John Nicpon
TITLE:	Quality Manager
APPROVAL DATE:	March 2, 2015



SUPERCEDES DATE: March 2, 2015
RTN NUMBER: 00000107 (Official Copy)

HMIS Rating:

Health - 2*
Flammability - 0
Reactivity - 0

NFPA Rating:

Health -
Flammability -
Reactivity -
Special Hazard - N/A

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 SAFETY DATA SHEET

