

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Ticonium 1000
Product Number: 65020K25, 65020K, 65020, 65020S
Chemical Name: Chrome Cobalt Alloy
Chemical Family: Metal Alloy
CAS Number: Blend

Company Identification

Ticonium Co., Div. 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 1-703-527-3887 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Chemical Name</u> | <u>Amount</u> | <u>CAS Number</u> |
|---------------------------|---------------|-------------------|
| COBALT | 40.0 - 70.0 % | 7440-48-4 |
| CHROMIUM | 10.0 - 40.0 % | 7440-47-3 |
| Confidential Ingredient A | 1.0 - 10.0 % | Trade Secret |
| SILICON | 0.0 - 5.0 % | 7440-21-3 |
| NICKEL | < 1.0 % | 7440-02-0 |

(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 hazards.



3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****  
*  
* Cancer hazard. *  
* *  
*****
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POTENTIAL HEALTH EFFECTS

EYE:

Causes eye irritation.

SKIN:

May cause skin irritation.

INHALATION:

Dust may be slightly irritating to respiratory tract.

INGESTION:

Ingestion is not considered a potential route of exposure.

CHRONIC EFFECTS:

Persons with impaired pulmonary function should not be subjected to excessive airborne concentrations.

REPRODUCTIVE HAZARDS:

None.

CARCINOGENICITY INFORMATION:

Chromium and Cobalt are listed by IARC and/or NTP as carcinogens.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with impaired pulmonary function should not be subjected to excessive airborne concentrations.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Immediately flush eyes with plenty of water.

INHALATION FIRST AID:

Remove to fresh air. If breathing is difficult, remove to fresh air and provide oxygen. Seek medical attention.

INGESTION FIRST AID:

Swallow large amounts of water and induce vomiting. Obtain medical help.



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.

EXTINGUISHING MEDIA:

Use extinguishing media appropriate for surrounding fire.

FIRE & EXPLOSION HAZARDS:

None.

COMBUSTION PRODUCTS:

None.

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 to avoid air contamination. Protective clothing not normally required during clean up procedures.

SMALL SPILLS PROCEDURE:

Same as large spill.

7. HANDLING AND STORAGE

No information available.

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:

Safety glasses are recommended to avoid contact with eyes.



(section 8 continued)

SKIN PROTECTION REQUIREMENTS:

Wear leather gloves to minimize skin contamination.

RESPIRATORY PROTECTION REQUIREMENTS:

Use a NIOSH approved organic vapor respirator when exposed to vapor from heated material.

EXPOSURE GUIDELINES:

COBALT

OSHA PEL: .1 mg/m³
OSHA TWA: 0.5 mg/m³

CHROMIUM

OSHA PEL: 1 mg/m³
OSHA TWA: 0.5 mg/m³

Confidential Ingredient A

OSHA PEL: 15 mg/m³
OSHA TWA: 5 mg/m³

SILICON

OSHA PEL: 15 mg/m³
OSHA TWA: 10 mg/m³

NICKEL

OSHA PEL: <.1 mg/m³
OSHA TWA: <.1 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Pebble Drops
COLOR: Silver
ODOR: None
BOILING POINT: 2700 F
SPECIFIC GRAVITY: 8.2 (Water = 1)
MELTING/FREEZING POINT ...: 2400 - 2450 F

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Mineral acids and strong oxidizing agents.



(section 10 continued)

DECOMPOSITION:

Metal oxides may be generated from melting.

11. TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS /:

May cause respiratory disease.

COBALT

Test Code: Oral LD50
Species: Rat
Results: 1500 mg/kg

CHROMIUM

Test Code: Implant TDLO
Species: Rat
Results: 1200 micrograms/kg of body weight administered
intermittently over a six week period.

Confidential Ingredient A

Test Code: Intraperitoneal LD50
Species: Rat
Results: 114 mg/kg

12. ECOLOGICAL INFORMATION

MISCELLANEOUS:

Dike and contain spill with absorbent material such as clay or commercial absorbent.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

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

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Ticonium 1000
D.O.T. SHIPPING NAME: N/A
TECHNICAL SHIPPING NAME ...: N/A
D.O.T. HAZARD CLASS: N/A
UN NUMBER: N/A



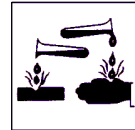
15. REGULATORY INFORMATION

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:

Irritant (Xi), Corrosive (C)



R-Phrases:

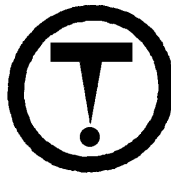
R36/37/38 - Irritating to eyes, respiratory system, and skin.

S-Phrases:

S3 - Keep in a cool place.

WHMIS Hazard Symbols:

Class D2 - Materials Causing Other Toxic Effects



Canadian Disclosure List

COBALT (7440-48-4)
CHROMIUM (7440-47-3)
Confidential Ingredient A
NICKEL (7440-02-0)

SARA Title III - Section 313

COBALT (7440-48-4)
CHROMIUM (7440-47-3)
NICKEL (7440-02-0)

CERCLA Hazardous Substances

CHROMIUM (7440-47-3) -- RQ 5000 lb
NICKEL (7440-02-0) -- RQ 100 lb

RCRA Hazardous Substances

CHROMIUM (7440-47-3) -- RCRA Code: D007
NICKEL (7440-02-0) -- RCRA Code: Unknown



(section 15 continued)

Title V

COBALT (7440-48-4)
CHROMIUM (7440-47-3)
NICKEL (7440-02-0)

CA Proposition 65

COBALT (7440-48-4)
NICKEL (7440-02-0)

SC Toxic Air Pollutants List

CHROMIUM (7440-47-3)
Confidential Ingredient A
SILICON (7440-21-3)
NICKEL (7440-02-0)

16. OTHER INFORMATION

REASON FOR ISSUE ...: Create new MSDS
PREPARED BY: Phyll Tabone
APPROVED BY: John Nicpon
TITLE: Quality Manager
APPROVAL DATE: July 30, 2009
SUPERCEDES DATE: New
RTN NUMBER: 00002070 (Official Copy)

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END OF MSDS

UNCONTROLLED DOCUMENT

