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**Material Safety Data Sheet  
For  
SUPREMCAS – SUPREMCAS “V”**

Distributor: Imperial Trading Ltd.  
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Flushing, NY 11367

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Trade Name: Non-Precious Dental Alloy

**Section I**

Material Identification:

Nickel-Chrome, Beryllium Alloy

Material Name: **SUPREMCAS – SUPREMCAS “V”**

**Section II**

Composition:	CAS#	Composition by weight
Chromium (Cr)	7440-47-3	12 – 14 %
Cobalt (Co)	7440-48-4	0.15 – 0.5 %
Beryllium (Be)	7440-41-7	1.9 max
Aluminum (Al)	7429-90-5	2 - 3 %
Nickel (Ni)	7440-02-0	73 - 78 %
Molybdenum (Mo)	7439-98-7	5 - 9 %
Titanium (Ti)	7440-32-6	0.15 - 0.5 %

**Hazard Data:**

For pure Beryllium (Fumes & Dust):

Eight (8) Hr. TLV – ug/m3. Ceiling level – 5 ug/m3. Max for 30 min. – 25 ug/m3.

For Pure Nickel & Chromium (Fumes & Dust):

Eight (8) Hr. – 1 mg/m3

For pure Molybdenum (Fumes & Dust):

Eight Hr. TLV – 5 mg/m3

### Section III

#### Technical Data:

Melting Range:	1150°F – 1220°F
Yield Strength:	870 - 890 MPa
Tensile Strength:	1140 - 1160 Mpa
Elongation:	6 - 8 %
Density:	7.5 - 8.00 (g/cc)
TCE:	13 - 14.5 (25-500°C)

Solubility in Water:	Insoluble
Appearance & Odor:	No Odor, White (Platinum) Color
Each Ingot weight:	Approximately 5-8 grams.
Fire & Explosion:	Fire and explosion resistant.

#### Reactivity Data:

At ordinary and at high temperature, the alloys oxidize, but are stable. At very high temperatures alloy may produce fumes.

### Section IV

#### Health Hazard Information:

Individual components and some of their compounds, in dust and fume form are suspected causes of progressive lung damage, and disease; and possible carcinogens. Symptoms include: Weight loss and/or difficulty breathing., and skin rash and itching.

#### Special Precautions:

Avoid inhalation of fumes and dust. Wear protective clothing. Beryllium dust can be toxic- do not inhale. Grind and polish with adequate ventilation. These alloys contain Nickel, not to be used in individuals with Ni sensitivity

#### Spill or Leak Procedure:

Remove dust by vacuuming or wet sweeping to prevent powdering in the air. Wear approved respirators and protective clothing. No special precautions are required for bulk (solid) shapes such as ingots.

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