#### SECTION I - CHEMICAL PRODUCT IDENTIFICATION

Chemical Name: Niobium

Trade Name or Synonym: Ceramic Brackets

Chemical Family:

Formula:

Distributor's Name:

World Class Technology Corp.

Address:

1300 NE Alpha Drive McMinnville, OR 97128

USA

**Emergency Telephone Number:** 

503-472-8320

Information Telephone Number

503-472-8320

**Date Issued** 1/13/09

# SECTION II - COMPOSITION/INFORMATION on INGREDIENTS

Ingredient Name	Concentration
Cobalt	43 – 48%
Chromium	23 – 31%
Niobium	5 – 18%
Gallium	<7%
Molybdenum	<5%
Wolfram	<4%
Silicium	<1%
Hazardous Components	None
	Nickel-Free, Beryllium-Free

<sup>\*</sup>Niobium products are not generally considered hazardous in the form they are shipped. Further grinding or cutting or any other procedure that causes a release of dust. hazardous levels of dust may be generated.

## SECTION III - HAZARDS IDENTIFICATION

Ingestion: No documented irritations when using product with Niobium in the form they are shipped Skin Contact: No documented irritations when using product with Niobium in the form they are shipped Eye Contact: No documented irritations when using product with Niobium in the form they are shipped Inhalation: No documented irritations when using product with Niobium in the form they are shipped

#### SECTION IV - FIRST AID MEASURES

In case of releasing dust as described in Section II, the following first aid measures are recommended Ingestion: While ingestion of large enough quantities to cause health effects is unlikely, consult a physician if it occurs. Skin Contact: Wash with water and mild detergent

Eye Contact: Flush thoroughly with water. Consult a physician.

Inhalation: Move person to fresh air until recovered. Consult a physician.

#### SECTION V - FIRE FIGHTING MEASURES

Nonflammable

Extinguishing Media: None Fire and Explosion Hazard: None Special Fire Fighting Procedures: None

## SECTION VI - ACCIDENTAL RELEASE MEASURES

Sweep up to avoid slipping hazards Environmental Precautions: None

Disposal: Dispose in accordance with local regulations

#### SECTION VII - HANDLING and STORAGE

Handling/Storage Precautions: None

Other Precautions: Follow standard laboratory safety practices

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#### SECTION VIII - EXPOSURE CONTROLS and PERSONAL PROTECTION

Respiratory Protection: Protective gloves only required when cutting, grinding or welding Skin Protection: Protective clothes or equipment only required when cutting, grinding or welding

Eye Protection: Only required when cutting, grinding or welding Work/Hygienic Practices: Follow standard laboratory safety practices

## SECTION IX - PHYSICAL and CHEMICAL PROPERTIES

Physical Form: Solid Color: Metal Odor: Odorless

Solubility in Water: Insoluble Melting Point: 1600-1950°C Boiling Point: Not known Flash Point: Nonflammable Specific Gravity: 0.90-0.91 Specific Weight: 7,4 – 7,8 water=1 Tensile Strength: 1900 N/mm²

## SECTION X - STABILITY and REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur Incompatibility (Materials to Avoid): None known

# SECTION XI - TOXICOLOGICAL INFORMATION

This material is not hazardous in normal storage and handling

#### SECTION XII – ECOLOGICAL INFORMATION

No ecological effects are known

## SECTION XIII - DISPOSAL CONSIDERATIONS

Landfill in accordance with all applicable federal, state and local regulations. The possibility of recycling must proofed under local regulations. Abfallschlüssel-Nr. nach ONORM S 2100: 35101 (Austria)

# SECTION XIV - TRANSPORTATION INFORMATION

Not dangerous according to current transportation regulations

## SECTION XV - REGULATORY INFORMATION

Identification according to EC-Directive: No obligatory indication
No obligatory identification according to the ChemG BGBI.Nr. 53/1997 (Österreich)

#### **SECTION XVI – OTHER INFORMATION**

N/A = Not Applicable

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