

MATERIAL SAFETY DATA SHEET

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SECTION I – CHEMICAL PRODUCT IDENTIFICATION

Chemical Name: Metal, Nitinol

Trade Name or Synonym: Archwires, Coil Springs, Distalizer Pins, Separator Springs

Chemical Family: Specialty stainless steel alloys

Formula: N/A

Distributor's Name:

World Class Technology Corp.

Emergency Telephone Number:

503-472-8320

Address:

1300 NE Alpha Drive
McMinnville, OR 97128
USA

Information Telephone Number

503-472-8320

Date Issued

6/25/08

SECTION II – COMPOSITION/INFORMATION on INGREDIENTS

Ingredient Name	Concentration %	PEL/TLV 8-hour TWA (UON)
Titanium 7440-32-6	Balance	Not Defined
Nickel 7440-02-0	55±1%	PEL 1.0 mg/m ³ TLV 1.0 mg/m ³
Carbon	.050 max	Not Defined
Oxygen	.050 max	Not Defined
Hydrogen	.005 max	Not Defined

SECTION III – HAZARDS IDENTIFICATION

Nitinol is generally not considered hazardous in the form shipped (solid bars, billets, wire, etc.); however, if your process involves grinding, melting, welding, cutting or any other process that causes a release of dust or fume, hazardous levels of dust or fume of the constituents of these alloys could be generated.

Health Effects: Nickel—Fumes are respiratory irritants and may cause respiratory disease. Skin contact can also cause an allergic skin rash. Nickel and its compounds have been reported to cause cancer of the lungs and sinuses.

Titanium – No observed health hazards.

SECTION IV – FIRST AID MEASURES

First Aid for Eyes: Flush thoroughly with water. Consult a physician.

First Aid for Skin: Wash with water and mild detergent.

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

First Aid for Ingestion: While ingestion of large enough quantities to cause health is unlikely, consult a physician if it occurs.

SECTION V – FIRE FIGHTING MEASURES

Flammable Limits

Upper Exposure Limit (UEL) %: N/A

Lower Exposure Limit (LEL) %: N/A

Extinguishing Media: Sand

Special Fire Fighting Procedures: N/A

SECTION VI – ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: N/A

SECTION VII – HANDLING and STORAGE

Storage Temperature (Min/Max): Ambient

Shelf Life: N/A

Special Sensitivity: N/A

Handling/Storage Precautions: N/A

SECTION VIII – PERSONAL PROTECTION

Ventilation: If your process causes a release of dust or fume, use local and general exhaust ventilation to keep airborne concentrations of dust or fumes below the TLV.

Respiratory Precaution: If your process causes a release of dust or fume in excess of the permissible exposure limit, use approved respirators for protection against airborne dust or fumes. Respirators should be used in accordance with 29 CFR 1910.134

Protective Equipment: Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis. If your process involves grinding or any other action that causes the release of dust or fumes, approved safety glasses or goggles should be worn.

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MADE IN USA

SECTION IX – PHYSICAL and CHEMICAL PROPERTIES

Form: Wire
Color: Metallic Grey
Odor: Odorless
Ph: N/A
Boiling Point: N/A
Melting-Freezing Point: 2500-2700°F
Solubility in Water: Insoluble
Specific Gravity: N/A
Bulk Density: No data available
Percent Volatile by Volume: N/A
Vapor Pressure: NIL

SECTION X – STABILITY and REACTIVITY

Stability: Stable
Hazardous Polymerization: Avoid strong acids
Incompatibilities: Materials to avoid: strong acids
Instability Conditions: None
Decomposition Products: None for product as shipped

SECTION XI – TOXICOLOGICAL INFORMATION

Refer to sections III and VI

SECTION XII – ECOLOGICAL INFORMATION

Not available

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method: N/A

SECTION XIV – TRANSPORTATION INFORMATION

Technical Shipping Name: Not regulated
Freight Class Bulk: N/A
Freight Class Package: N/A
Product Label: N/A
Hazard Class or Division: Non-hazardous
Hazard Class Division Number: Not hazardous by DOT regulations

SECTION XV – REGULATORY INFORMATION

SARA Title III
Section 302 Extremely Hazardous Substances: None
Section 311/312 Hazard Categories: Not applicable for storage of items as shipped
Section 313 Toxic Chemicals: N/A
RERA Status: N/A

SECTION XVI – OTHER INFORMATION

HMIS Ratings: Health	Flammability	Reactivity
0	0	0

0=Minimal
1=Slight
2=Moderate
3=Serious
4=Severe

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