

MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Company Name
American Orthodontics
1714 Cambridge Ave
Sheboygan Wisconsin 53081

Emergency telephone number
(920) 457-5051
Telephone for information
(920) 457-5051

Product Identification:

Product Name Stainless Steel Products
Common Name Stainless Steel Alloys
Associated Catalog Numbers Arch Hooks and Stops, Arch Lock, Bands, Bondable Tongue Directors, Brackets, Diastema Closers, Expansion Screws, Facebows, Gentle Jumpers, Instruments, Jasper Jumpers, Jet Family Products, Jones Jigs, Kobayashi Hooks, Korn Mandibular Advancers, Lingual Attachments, Lingual Retainers, Ligature Wire, Lip Bumpers, Mesh Pads, Palatal Bars, Springs, Surgical Ball Hooks, Tubes, Stainless Steel Wires, Stainless Steel Products

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	Wt %	CAS Number	OSHA PEL	ACGIH TLV
	Aluminum, Al	0-5	7429-90-5	15.0	15.0
	Cobalt, Co	0-5	7440-48-7	0.1	0.1
	Copper, Cu	0-5	7440-50-8	1.0	1.0
	Chromium, Cr	13-23	7440-47-3	1.0	0.5
	Iron, Fe	50-80	7439-89-6	10.0	5.0
	Manganese, Mn	0-5	7439-96-5	5.0	5.0
	Molybdenum, Mo	0-5	7439-98-7	5.0	5.0
	Nickel, Ni	3-15	7440-02-0	1.0	1.0
	Silicon, Si	0-5	7440-21-3	15.0	10.0

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point High °C
Specific Gravity 7.5 – 8.5
Solubility in Water Insoluble
Vapor Pressure Nil at 100°C
Appearance Solid metal
Odor Odorless

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media N/A
Unusual Fire & Explosion Hazards N/A
Special Fire Fighting Procedures N/A

SECTION V – REACTIVITY DATA

Reactivity Stable
Incompatible Materials None
Hazardous Decomposition Products None
Hazardous Polymerization Will Not Occur

SECTION VI – HEALTH HAZARD DATA

Acute Hazards None known in form supplied
Chronic Hazards None known in form supplied
Signs & Symptoms Of Overexposure N/A

Routes of Entry: _____ Symptom: _____ Emergency / First Aid Procedures: _____

Eye Contact	Unlikely in form supplied	N/A
Skin Contact	Unlikely in form supplied	N/A
Inhalation	Unlikely in form supplied	N/A
Ingestion	Unlikely in form supplied	N/A

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	General
Respiratory Protection	Required when cutting, grinding, or welding
Protective Gloves	Required when cutting, grinding, or welding
Eye Protection	Required when cutting, grinding, or welding
Work / Hygienic Practices	Follow standard laboratory safety practices

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	Clean up
Waste Disposal Method	Dispose of in accordance with local, state, and federal regulations
Handling & Storage Precautions	None

The information contained in the MSDS is believed to be valid and accurate. American Orthodontics, however, makes no warranty, either expressed or implied, as to the completeness of information in all possible conditions. **Reasonable safety precautions must always be observed.**

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Company Name	Emergency telephone number
American Orthodontics	(920) 457-5051
1714 Cambridge Ave	Telephone for information
Sheboygan Wisconsin 53081	(920) 457-5051

Product Identification:

Product Name	Beta Titanium Wires
Common Name	Beta Titanium Alloy
Associated Catalog Numbers	Various

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	<u>Common Name</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
	Titanium (Ti)	7440-32-6	N/E	N/E
	Molybdenum (Mo)	7439-98-7	15.0	10.0
	Zirconium (Zr)	7440-67-7	5.0	5.0
	Tin (Sn)	7440-31-5	2.0	2.0

N/E = None Established

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	>2000°C
Specific Gravity	5.06
Solubility in Water	Insoluble
Vapor Pressure	0 at 100°C
Appearance	Silver-gray metal
Odor	Odorless

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	N/A
Unusual Fire & Explosion Hazards	N/A
Special Fire Fighting Procedures	N/A

SECTION V – REACTIVITY DATA

Reactivity	Stable
Incompatible Materials	None
Hazardous Decomposition Products	None
Hazardous Polymerization	Will Not Occur

SECTION VI – HEALTH HAZARD DATA

Acute Hazards	None known
Chronic Hazards	None known
Signs & Symptoms Of Overexposure	None known

<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
Eye Contact	N/A	N/A
Skin Contact	N/A	N/A
Inhalation	N/A	N/A
Ingestion	N/A	N/A

SECTION VII – SPECIAL PROTECTION INFORMATION

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Ventilation	Mechanical exhaust
Respiratory Protection	N/A
Protective Gloves	N/A
Eye Protection	N/A
Work / Hygienic Practices	Follow standard laboratory safety practices

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	Clean up
Waste Disposal Method	Dispose of in accordance with local, state and federal regulations
Handling & Storage Precautions	None

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Company Name	Emergency telephone number
American Orthodontics	(920) 457-5051
1714 Cambridge Ave	Telephone for information
Sheboygan Wisconsin 53081	(920) 457-5051
Product Identification:	
Product Name	Nickel Titanium Wire, Jones Jig Spring, Jet Family Springs
Common Name	Nickel Titanium Wire Material
Associated Catalog Numbers	Various

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	<u>Common Name</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
	Nickel	7440-02-0	1 mg/m ³	1 mg/m ³

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	High °C
Specific Gravity	8.9
Solubility in Water	Insoluble
Vapor Pressure	N/A at 100°C
Appearance	Solid metal in wire form
Odor	None

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	N/A
Unusual Fire & Explosion Hazards	N/A
Special Fire Fighting Procedures	N/A

SECTION V – REACTIVITY DATA

Reactivity	Stable
Incompatible Materials	None
Hazardous Decomposition Products	None
Hazardous Polymerization	Will Not Occur

SECTION VI – HEALTH HAZARD DATA

Acute Hazards	May occur for special allergic or over-exposed people
Chronic Hazards	Nickel has been reported to cause cancer of the lungs and sinuses
Signs & Symptoms Of Overexposure	Unlikely in wire form. Irritation to affected areas, sneezing, metallic taste

<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
Eye Contact	Mechanical irritation	Consult a physician
Skin Contact	Dermatitis in sensitive people	Wash with water, consult a physician
Inhalation	N/A	N/A
Ingestion	Not likely. Irritation in sensitive people	Consult a physician

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Mechanical exhaust
Respiratory Protection	N/A

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Protective Gloves	May be used
Eye Protection	May be used
Work / Hygienic Practices	Follow standard laboratory safety practices

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	N/A
Waste Disposal Method	Dispose of in accordance with local, state and federal regulations
Handling & Storage Precautions	None

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