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CERTIFICATE OF CONFORMANCE

August 2, 2006

RE: Latex in American Orthodontics' Products

AO Products Containing Latex

Natural Color Latex Elastics

Neon Color Latex Elastics

American Orthodontics' elastics are manufactured from surgical grade, natural latex tubing.

AO Latex Free Products

American Orthodontics certifies the following Urethane Products to be free of natural latex.

American Orthodontics' Urethane products (All are latex-free):

All Plastic Ligatures, including:

Unistick Ligatures

Six Stick Ligatures

10 Ring Ligatures

Cane Ligatures

Bulk Ligatures

Plastic Chain

Memory Chain

X-Ring Separators

Radio Opaque Separators

E-Z Tie & Plastic Tie Tubing

Arch Wire Sleeves

Rotation Wedges

Jasper Jumpers, Gentle Jumpers, Rapid Molar Intruders

Korn Mandibular Advancer and MAP components

Andrew Pietzner

Consumer Safety Information Coordinator

Tel (800) 558-7687 x137

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E-mail: arp@americanortho.com



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	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	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

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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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 Etching Gel, Semi-Gel, or Liquid
 Common Name Etching Agent
 Associated Catalog Numbers 001-903, 001-912, 001-913, 001-900, 001-910

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Phosphoric Acid	7664-38-2	1 mg/m ³	1 mg/m ³

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point 158°C
 Specific Gravity 1.69
 Solubility in Water Soluble
 Vapor Pressure ca 750mm HG at 100°C
 Appearance Gel, Semi-Gel, or Liquid
 Odor Characteristic

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 Alkaline materials, metals
 Hazardous Decomposition Products None
 Hazardous Polymerization Will Not Occur

SECTION VI – HEALTH HAZARD DATA

Acute Hazards Damage to tissue on contact
 Chronic Hazards None known
 Signs & Symptoms Of Overexposure Skin irritation

Routes of Entry:	Symptom:	Emergency / First Aid Procedures:
Eye Contact	Irritation	Flush with copious amounts of water, contact physician
Skin Contact	Irritation	Wash with copious amounts of water
Inhalation	N/A	N/A
Ingestion	Irritation	Drink milk or baking soda, contact physician

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation Mechanical exhaust
 Respiratory Protection N/A
 Protective Gloves Recommended
 Eye Protection Recommended
 Work / Hygienic Practices Avoid contact with skin or mucous membranes

MATERIAL SAFETY DATA SHEET

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	Wash with water into sewer
Waste Disposal Method	Wash with water into sewer
Handling & Storage Precautions	Routine precautions applicable to acids

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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	FluorSure Visible Light Curable Fluoride Releasing Sealant
Common Name	Light Cure Orthodontic Adhesive Sealant with Fluoride
Associated Catalog Numbers	001-915

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Sodium Fluoride	7681-49-4	2.5 mg/m ³	2.5 mg/m ³

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	N/A
Specific Gravity	2.2
Solubility in Water	Virtually insoluble
Vapor Pressure	N/A
Appearance	Tooth colored paste
Odor	Negligible

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	Possibility of irritation to eyes, mucous membranes
Chronic Hazards	Possibility of sensitization or irritation upon prolonged or repeated exposure
Signs & Symptoms Of Overexposure	Skin/eye irritation

Routes of Entry:	Symptom:	Emergency / First Aid Procedures:
Eye Contact	Irritation	Flush with copious amounts of water, contact physician
Skin Contact	Irritation	Wash with copious amounts of water and soap
Inhalation	N/A	N/A
Ingestion	Irritation	Induce vomiting if large amount of material ingested , contact physician

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Mechanical exhaust
Respiratory Protection	N/A

Protective Gloves	Recommended
Eye Protection	Recommended
Work / Hygienic Practices	Avoid contact with skin or mucous membranes

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	Wipe up with soap and water
Waste Disposal Method	Dispose of in accordance with local, state and federal regulations
Handling & Storage Precautions	Routine precautions applicable to acids

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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	Bandtite Liquid
Common Name	Glass Ionomer Liquid
Associated Catalog Numbers	001-970, 001-970M, 001-971

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Polyacrylic acid	79-10-7	1 ppm	10 ppm

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	ca 105°C
Specific Gravity	ca 1.41
Solubility in Water	Soluble
Vapor Pressure	ca 720 mm HG at 100°C
Appearance	Liquid
Odor	Characteristic Odor

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	Alkaline Materials
Hazardous Decomposition Products	Carbon Monoxide (CO), Carbon Dioxide (CO ₂)
Hazardous Polymerization	Will Not Occur

SECTION VI – HEALTH HAZARD DATA

Acute Hazards	May cause irritation to eyes, mucous membranes
Chronic Hazards	None known
Signs & Symptoms Of Overexposure	Irritation to eyes, mucous membranes

<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
Eye Contact	May cause irritation	Flush immediately with copious amounts of water, contact physician.
Skin Contact	May cause irritation	Wash immediately with copious amounts of water, contact physician.
Inhalation	N/A	N/A
Ingestion	No hazard in small quantities	If large amounts ingested, take baking soda, contact physician.

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Mechanical exhaust
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Respiratory Protection	N/A
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	Wash with water into sewer
Waste Disposal Method	Wash with water into sewer
Handling & Storage Precautions	Avoid exposure to elevated temperatures

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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	IC Tip Freeze Spray
Common Name	Halogenated Hydrocarbon Freeze Spray
Associated Catalog Numbers	001-968

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	1,1,1,2-tetra-fluoroethane	811-97-2	N/E N/E = None Established	N/E

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	-26.5°C
Specific Gravity	N/A
Solubility in Water	Insoluble
Vapor Pressure	N/A
Appearance	Clear, colorless gas
Odor	Slight ethereal

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	N/A
Unusual Fire & Explosion Hazards	Cans may rupture in fires. Decomposition may occur.
Special Fire Fighting Procedures	Cool cans with water spray

SECTION V – REACTIVITY DATA

Reactivity	Stable
Incompatible Materials	Alkali or Alkaline earth metals
Hazardous Decomposition Products	Hydrofluoric acid
Hazardous Polymerization	Will Not Occur

SECTION VI – HEALTH HAZARD DATA

Acute Hazards	Frostbite possible. Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness or death. Intentional misuse can be fatal.	
Chronic Hazards	None known	
Signs & Symptoms Of Overexposure	As above	
<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
Eye Contact	Irritation, redness	Flush with water for 15 minutes, contact physician
Skin Contact	Irritation, redness	Flush with water after excessive contact. Wash contaminated clothing before reuse. Treat for frostbite by gently warming affected area.
Inhalation	Breathing difficulties, heart	Immediately remove to fresh air. If not

	irregularities	breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion	N/A	Seek medical attention as required

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Mechanical exhaust
Respiratory Protection	N/A
Protective Gloves	Recommended
Eye Protection	Recommended
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	Do not expose to heat or direct sunlight. Do not puncture container.

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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	DSX Medic 365 Instrument Lubricant
Common Name	Embedded fluoropolymer particle lubricant
Associated Catalog Numbers	001-6015

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Octylphenoxy poly-ethoxy ethanol	9002-93-1	N/E	N/E
	Fluoropolymer	9002-64	N/E	N/E
	Propylene glycol	57-56-6	N/E	N/E
	Sorbitan (EO glycol)-Monolaurate	9005-64-5	N/E	N/E
			N/E = None Established	

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	>100°C
Specific Gravity	1.1
Solubility in Water	90% soluble
Vapor Pressure	N/A
Appearance	White liquid
Odor	Mild odor

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	Irritation possible to eyes / mucous membranes	
Chronic Hazards	None known	
Signs & Symptoms Of Overexposure	Irritation, redness	
<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
Eye Contact	Irritation, redness	Flush with water
Skin Contact	N/A	Wipe off, flush with water
Inhalation	N/A	N/A
Ingestion	N/A	Seek medical attention as required

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Mechanical exhaust
Respiratory Protection	N/A
Protective Gloves	N/A
Eye Protection	Recommended
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	Keep from freezing

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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	Liquid Foil
Common Name	Potassium Alginate
Associated Catalog Numbers	861-010, 861-002, 861-003

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Potassium Alginate	9005-36-1	N/E	N/E
			N/E = None Established	

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	N/A
Specific Gravity	N/A
Solubility in Water	Soluble
Vapor Pressure	N/A
Appearance	Fine pink powder
Odor	Faint odor in bulk

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	N/A
Unusual Fire & Explosion Hazards	Combustible when finely divided and air-suspended
Special Fire Fighting Procedures	None

SECTION V – REACTIVITY DATA

Reactivity	Stable
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Will Not Occur

SECTION VI – HEALTH HAZARD DATA

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

<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
Eye Contact	Irritation due to foreign body	Flush with water
Skin Contact	N/A	N/A
Inhalation	Excessive inhalation may be annoying and can mechanically impede respiration	If large quantities have been inhaled, keep airway open, consult a physician
Ingestion	N/A	N/A

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Mechanical exhaust
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Respiratory Protection	Recommended if dust is a nuisance
Protective Gloves	Not usually needed
Eye Protection	Recommended if heavy dust
Work / Hygienic Practices	Follow standard laboratory safety practices

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	Vacuum or sweep up. The use of water will make the material very slippery.
Waste Disposal Method	Dispose of in accordance with local, state and federal regulations
Handling & Storage Precautions	Store in a cool, dry place. Keep container closed.

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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	Lite-Tite Glass Ionomer Orthodontic Resin Band Cement
Common Name	Glass Ionomer Resin Cement
Associated Catalog Numbers	001-980, 001-980M

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Silicon Dioxide	60676-86-01	10mg/m3	10mg/m3
	Fluorosilicate Glass	65997-14-4	10mg/m3	10mg/m3
	Barium Glass		10mg/m3	10mg/m3
	Bis-GMA	1565-94-2	N/E	N/E
	Carboxylic Acid		N/E	N/E
	Aluminum Oxide	1344-28-1	10mg/m3	10mg/m3
	Benzoyl Peroxide	94-36-0	5mg/m3	5mg/m3
	Photo initiators	24650-42-8	N/E	N/E

N/E = none established

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	N/A
Specific Gravity	N/A
Solubility in Water	Insoluble
Vapor Pressure	N/A
Appearance	Tinted Paste
Odor	Characteristic

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	Chemical Foam, Carbon Dioxide or Dry Chemical
Unusual Fire & Explosion Hazards	N/A
Special Fire Fighting Procedures	N/A

SECTION V – REACTIVITY DATA

Reactivity	Stable
Incompatible Materials	Peroxide for base paste, Amine for catalyst paste
Hazardous Decomposition Products	Calcium oxide, Fluoride
Hazardous Polymerization	May Occur, Avoid extreme heat / exposure to light

SECTION VI – HEALTH HAZARD DATA

Acute Hazards	May occur for special allergic or over-exposed people
Chronic Hazards	None known
Signs & Symptoms Of Overexposure	Irritation

<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
Eye Contact	Irritation	Wash with copious amounts of water, contact

Skin Contact	Irritation	physician
Inhalation	N/A	Wash with soap and water immediately
Ingestion	Irritation	N/A
		Consult a physician

SECTION VII – SPECIAL PROTECTION INFORMATION

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

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	Clean up using gloves, dispose of in an approved manner
Waste Disposal Method	Dispose of in accordance with local, state, and federal regulations
Handling & Storage Precautions	Avoid contact with skin and mucous membranes. Avoid extreme heat, sunlight or visible light. Keep closed when not in use.

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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	Multiphase Products
Common Name	Chromium Cobalt Alloys
Associated Catalog Numbers	Multiphase Wire, Jones Jigs

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	Wt %	CAS Number	OSHA PEL	ACGIH TLV
	Cobalt, Co	20-35	7440-48-7	0.1	0.1
	Chromium, Cr	10-25	7440-47-3	1.0	0.5
	Molybdenum, Mo	7-12	7439-98-7	5.0	5.0
	Nickel, Ni	25-35	7440-02-0	1.0	1.0

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

<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
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
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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

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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	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	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	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

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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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	Plastic Bracket Primer
Common Name	Methacrylate Monomer
Associated Catalog Numbers	001-965, 001-967

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Methacrylate Monomer	80-62-6	410 mg/m ³	410 mg/m ³

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	101°C
Specific Gravity	0.96
Solubility in Water	1.5% at 20°C
Vapor Pressure	3.5mm at 20°C
Appearance	Clear, viscous liquid
Odor	Acrylic odor

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	CO ₂ , Dry Chemical
Unusual Fire & Explosion Hazards	N/A
Special Fire Fighting Procedures	Routine for water immiscible liquid

SECTION V – REACTIVITY DATA

Reactivity	Unstable
Incompatible Materials	Peroxides, high temperatures, sun light
Hazardous Decomposition Products	None
Hazardous Polymerization	May occur

SECTION VI – HEALTH HAZARD DATA

Acute Hazards	Skin, mucous membrane irritation, rash
Chronic Hazards	Skin sensitization, dermatitis upon prolonged or repeated exposure
Signs & Symptoms Of Overexposure	Redness of skin, rash, headache, dizziness

Routes of Entry:	Symptom:	Emergency / First Aid Procedures:
Eye Contact	Irritation	Flush with copious amounts of water, contact physician
Skin Contact	Irritation	Wash with copious amounts of water
Inhalation	N/A	N/A
Ingestion	Irritation	Induce vomiting, contact physician

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Local or mechanical exhaust
Respiratory Protection	N/A

Protective Gloves	Recommended
Eye Protection	Recommended
Work / Hygienic Practices	Avoid contact with skin or mucous membranes. Follow standard laboratory safety practices

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	Wipe up, avoid contact with skin
Waste Disposal Method	Dispose of according to local, state, and federal requirements
Handling & Storage Precautions	Avoid exposure to light and elevated temperatures

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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	Porcelain Primer
Common Name	Porcelain Primer
Associated Catalog Numbers	001-966

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Isopropanol	67-63-0	980 mg/m ³	

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	82.3°C
Specific Gravity	.79
Solubility in Water	Soluble
Vapor Pressure	33 mm HG @ 20°C
Appearance	Clear, low viscosity liquid
Odor	Characteristic

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	Dry chemical, CO ₂ or Foam
Unusual Fire & Explosion Hazards	May cause fire or explosion if exposed to open flame or heat. Especially dangerous if atomized in air.
Special Fire Fighting Procedures	Do not use water

SECTION V – REACTIVITY DATA

Reactivity	Stable
Incompatible Materials	Isocyanates, strong oxidizing agents, alkali metals
Hazardous Decomposition Products	Carbon Monoxide (CO), Carbon Dioxide (CO ₂)
Hazardous Polymerization	Will Not Occur

SECTION VI – HEALTH HAZARD DATA

Acute Hazards	Irritation of respiratory tracts, headache, dizziness or nausea
Chronic Hazards	Eye irritation and blurred vision, skin irritation, dermatitis
Signs & Symptoms Of Overexposure	As described above

<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
Eye Contact	Irritation	Flush with copious amounts of water, contact physician
Skin Contact	Irritation	Wash with copious amounts of water
Inhalation	N/A	N/A
Ingestion	Irritation	Induce vomiting, contact physician

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Local or mechanical exhaust
Respiratory Protection	N/A

Protective Gloves	Recommended
Eye Protection	Recommended
Work / Hygienic Practices	Follow standard laboratory safety practices

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	Absorb and mark container “flammable”
Waste Disposal Method	Dispose of according to local, state, and federal regulations
Handling & Storage Precautions	Avoid splashing, avoid contact with skin and mucous membranes. Keep away from sparks, heat, open flame, oxidizing agents, alkalis and Isocyanates.

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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	Silver Solder, Brazing Alloys
Common Name	Soldering, Brazing Compounds
Associated Catalog Numbers	860-003 thru 860-009, 860-000, various products brazed or soldered during manufacture

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Copper, Cu	7440-50-8	1.0	1.0
	Gold, Au	7440-57-5	N/E	N/E
	Nickel, Ni	7440-02-0	1.0	1.0
	Palladium, Pd	7440-05-3	N/E	N/E
	Silver, Ag	7440-22-4	0.01	0.1
	Tin, Sn	7440-31-5	2.0	2.0
	Zinc, Zn	7440-66-6	5.0	10.0
			N/E = None Established	

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	>620°C
Specific Gravity	8.77 – 9.41
Solubility in Water	Insoluble
Vapor Pressure	Nil at 100°C
Appearance	White to light yellow metal in wire form
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	Strong oxidizers, peroxides, acids, chlorine
Hazardous Decomposition Products	Metal / metal oxide fume
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	Respiratory tract irritation	Remove to fresh air, consult a physician

Ingestion	Unlikely in form supplied	N/A
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SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Mechanical Exhaust
Respiratory Protection	Required
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	Clean up
Waste Disposal Method	Dispose of in accordance with local, state, and federal regulations
Handling & Storage Precautions	None

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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

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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	Ultra Flux Soldering Flux
Common Name	Soldering/brazing flux
Associated Catalog Numbers	860-010, 860-011

SECTION II – HAZARDOUS COMPONENTS

Ingredients Considered Hazardous	Common Name	CAS Number	OSHA PEL	ACGIH TLV
	Potassium Tetraborate	1332-77-0	N/E	N/E
	Boric Acid	10043-35-3	N/E	N/E
	Potassium Bifluoride	7789-29-9	2.5 mg/m3	2.5 mg/m3
	Potassium Pentaborate	11128-29-3	N/E	N/E
	Sodium Dodecyl Sulfate	151-21-3	N/E	N/E
	N/E = None Established			

SECTION III – PHYSICAL CHARACTERISTICS

Boiling Point	N/A
Specific Gravity	1.49
Solubility in Water	Soluble
Vapor Pressure	N/A
Appearance	White paste
Odor	Odorless

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	N/A
Unusual Fire & Explosion Hazards	Toxic and corrosive fluoride compounds may be released in a fire situation
Special Fire Fighting Procedures	None

SECTION V – REACTIVITY DATA

Reactivity	Stable
Incompatible Materials	Strong acids and alkalis
Hazardous Decomposition Products	Emits toxic and corrosive fluoride compounds.
Hazardous Polymerization	Will Not Occur

SECTION VI – HEALTH HAZARD DATA

Acute Hazards	Contact may cause irritation and fluoride burns. Ingestion/inhalation may cause abdominal pain, diarrhea, vomiting, excess salivation, thirst, perspiration and painful spasms of the limbs. Large amounts may be fatal.	
Chronic Hazards	Exposure to fluorides may produce mottling of tooth enamel, embrittlement and decalcification of ligaments and vertebrae resulting in spinal stiffness.	
Signs & Symptoms Of Overexposure	As above. Also nasal discharge, nosebleeds, coughing, sore throat, labored breathing. Severe exposure may cause bronchospasm and pulmonary edema.	

<u>Routes of Entry:</u>	<u>Symptom:</u>	<u>Emergency / First Aid Procedures:</u>
Eye Contact	Irritation and fluoride burns	Flush with water for at least 30 minutes, contact physician

Skin Contact	Fluoride burns	Flush with water for at least 15 minutes while removing contaminated clothing and paying particular attention to skin under nails, contact physician.
Inhalation	Irritation	Remove to fresh air
Ingestion	Irritation	Do not induce vomiting. Give large quantities of water. Contact physician.

SECTION VII – SPECIAL PROTECTION INFORMATION

Ventilation	Local exhaust
Respiratory Protection	Recommended
Protective Gloves	Gloves required
Eye Protection	Goggles required
Work / Hygienic Practices	Avoid skin contact. Follow standard laboratory safety practices

SECTION VIII – SAFE HANDLING MEASURES

Precautions In Case Of Spill	Soak up using an absorbent
Waste Disposal Method	Dispose of in accordance with local, state and federal regulations
Handling & Storage Precautions	Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

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