

# **SAFETY DATA SHEET**

Issue Date 28-May-2015

Revision Date 31-Jul-2015

Version 3

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

**Product Name** 

Stainless Steel

Other means of identification

Product Code Synonyms FRP008

Recommended use of the chemical and restrictions on use

Recommended Use Uses advised against Stainless steel product manufacture.

Wire Mesh

Cinnaminson, NJ 08077

Manufacturer Orthodontic Wires

J.A.W. Products, Inc. 835 Industrial Hwy, Unit 125

888-221-0671

Details of the supplier of the safety data sheet

**Manufacturer Address** 

ATI, 1000 Six PPG Place, Pittsburgh, PA

15222 USA

Emergency telephone number

**Emergency Telephone** 

Chemtrec: 1-800-424-9300

#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) This product is an article and, as such, does not present a hazard to human health by inhalation or ingestion

Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

#### <u>Label elements</u>

**Emergency Overview** 

Danger

Hazard statements

Suspected of causing cancer
May cause an allergic skin reaction

Causes damage to respiratory track prolonged or repeated exposure if inhaled.



Appearance Various massive product

Physical state Solid

Odor Odorless

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wear protective gloves

If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

Other Information

When product is subjected to welding, burning, melting, sawing, brazing, grinding, buffing, polishing, or other similar heat-generating processes, the following potentially hazardous airborne particles and/or furnes may be generated: zinc, copper, magnesium, or cadmium furnes may cause metal furne fever, titanium dioxide an IARC Group 2B carcinogen, Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer, Vanadium pentoxide (V2O5) affects eyes, skin, respiratory system, Soluble molybdenum compounds such as molybdenum trioxide may cause lung irritation.

#### 2 COMPOSITION/INFORMATION ON INGREDIENTS

#### Synonyms

Chemical Name	GAS No.	Weight-%
Iron	7439-89-6	<90
Nickel	7440-02-0	0-46
Chromium	7440-47-3	10-30
Manganese	7439-96-5	0-10
Molybdenum	7439-98-7	0-7.0
Silicon	7440-21-3	0-6.5
Aluminum	7429-90-5	0-4.0
Copper .	7440-50-8	0-4.0
Tungsten	7440-33-7	0-2.5
Titanium	7440-32-6	0-2.4
Boron	19287-88-8	0-2.25
Vanadium	7440-62-2	0-1.1
Tantalum	7440-25-7	0-1.0
Niobium (Columbium)	7440-03-1	0-1.0

#### A FRETAID MEASURES

First aid measures

Eye contact In the case of particles coming in contact with eyes during processing, treat as with any

foreign object.

Skin Contact In the case of skin irritation or allergic reactions see a physician.

Inhalation If excessive amounts of vapors, smoke, fume, or particles are inhaled during processing,

remove to fresh air and consult a qualified health professional.

**Ingestion** Not an expected route of exposure.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

# 5. PIREJHIGHTING MEASURES

Suitable extinguishing media

Not flammable in the form of this product as distributed, flammable as finely divided particles or pieces resulting from processing of this product. Smother with salt (NaCl) or class D dry powder fire extinguisher.

Unsultable extinguishing media Do not spray water on burning metal as an explosion may occur. This explosive characteristic is caused by the hydrogen and steam generated by the reaction of water with the burning material.

Specific hazards arising from the chemical

intense heat. Very fine, high surface area material resulting from grinding, buffing, polishing, or similar processes of this product may ignite spontaneously at room temperature. WARNING: Fine particles resulting from grinding, buffing, polishing, or similar processes of this product may form combustible dust-air mixtures. Keep particles away from all ignition sources including heat, sparks, and flame. Prevent dust accumulations to minimize combustible dust hazard,

Hazardous combustion products Titanium dioxide an IARC Group 2B carcinogen. Hexavalent Chromium (Chromium VI) may

cause lung, nasal, and/or sinus cancer. Vanadium pentoxide (V2O5) affects eyes, skin, respiratory system. Zinc, copper, magnesium, or cadmium fumes may cause metal fumes fever. Soluble molybdenum compounds such as molybdenum trioxide may cause lung irritation.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) respirator and full protective gear.

#### 6 ACCIDENTAL RELEASE MEASURES

Personal procautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required.

For emergency responders

Use personal protective equipment as required.

Environmental precautions

**Environmental precautions** 

Not applicable to massive product.

Methods and material for containment and cleaning up

Methods for containment

Not applicable to massive product.

Methods for cleaning up

Not applicable to massive product,

#### HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling

Intense heat. Very fine, high surface area material resulting from grinding, buffing, pollshing, or similar processes of this product may ignite spontaneously at room temperature. WARNING: Fine particles resulting from grinding, buffing, polishing, or similar processes of this product may form combustible dust-air mixtures. Keep particles away from all ignition sources including heat, sparks, and flame. Prevent dust accumulations to minimize combustible dust hazard.

#### Conditions for safe storage, including any Incompatibilities

Storage Conditions

Keep chips, turnings, dust, and other small particles away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials

Dissolves in hydrofluoric acid, Ignites in the presence of fluorine. When heated above 200°C, reacts exothermically with the following: Chlorine, bromine, halocarbons, carbon

tetrachloride, carbon tetrafluoride, and freon.

### 8 EXPOSURE CONTROLS/RERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL
Iron 7439-89-6	-	
Nickel 7440-02-0	TWA; 1.5 mg/m³ inhalable fraction	TWA: 1 mg/m <sup>3</sup>
Chromium 7440-47-3	TWA: 0.5 mg/m³	TWA: 1 mg/m³
Manganese 7439-96-5	TWA: 0.02 mg/m³ respitable fraction TWA: 0.1 mg/m³ inhalable fraction TWA: 0.02 mg/m³ Mn TWA: 0.1 mg/m³ Mn	(vacated) STEL; 3 mg/m³ fume (vacated) Ceiling; 5 mg/m³ Ceiling: 5 mg/m³ fume Ceiling; 5 mg/m³ Mn
Molybdenum 7439-98-7	TWA: 10 mg/m³ inhalable fraction TWA: 3 mg/m³ respirable fraction	-
Silicon 7440-21-3	-	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction
Aluminum 7429-90-5	TWA; 1 mg/m³ respirable fraction	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction
Copper 7440-50-8	TWA: 0.2 mg/m³ fume TWA: 1 mg/m³ Cu dust and mist	TWA: 0.1 mg/m³ fume TWA: 1 mg/m³ dust and mist
Tungsten 7440-33-7	STEL: 10 mg/m³ STEL: 10 mg/m³ W TWA: 5 mg/m³ TWA: 6 mg/m³ W	(vacated) STEL: 10 mg/m³ (vacated) STEL: 10 mg/m³ W
Titanium 7440-32-6	-	<del>-</del>
Boron 19287-88-8	-	-
Vanadium 7440-62-2	<del>-</del>	Ceiling: 0.5 mg/m³ V2O5 respirable dust Ceiling: 0.1 mg/m³ V2O5 fume
Tantaium 7440-25-7	-	TWA: 5 mg/m³
Niobium (Columbium) 7440-03-1		-

#### Appropriate engineering controls

**Engineering Controls** 

Avoid generation of uncontrolled particles.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

When airborne particles may be present, appropriate eye protection is recommended. For example, tight-fitting goggles, foam-lined safety glasses or other protective equipment that shield the eyes from particles.

Skin and body protection

Fire/flame resistant/retardant clothing may be appropriate during hot work with the product. Cut-resistant gloves and/or protective clothing may be appropriate when sharp surfaces are present.

Respiratory protection

When particulates/fumes/gases are generated and if exposure limits are exceeded or irritation is experienced, proper approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminat concentrations. Respiratory protection must be provided in accordance with current local

regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state

Appearance Color

Solid

Various massive product forms

metallic, gray

Odor

Odorless Not applicable

Odor threshold

Remarks • Method

**Property** 

Ηq Melting point/freezing point

Boiling point / boiling range

Flash point

**Evaporation rate** 

<u>Values</u> Not Applicable

1430-1540 °C / 2600-2800 °F

Flammability (solid, gas)

Not applicable

Not flammable in the form of this product as distributed, flammable as finely divided particles or pieces resulting from processing of this product

Not applicable

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density Specific Gravity Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature

Kinematic viscosity Dynamic viscosity

**Explosive properties Oxidizing properties**  Not Applicable

Not Applicable

7-9 insoluble

Not applicable Not applicable Not applicable Not applicable

Insoluble Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

Other Information

Softening point Molecular weight VOC Content (%)

Not Applicable Not Applicable Not applicable

Density **Bulk density** 

# TO STABILITY AND REACTIVITY

#### Reactivity

Not applicable

#### Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

#### Conditions to avoid

Dust formation and dust accumulation;

incompatible materials

Dissolves in hydrofluoric acid. Ignites in the presence of fluorine. When heated above 200°C, reacts exothermically with the following: Chlorine, bromine, halocarbons, carbon tetrachloride, carbon tetrafluoride, and freon.

**Hazardous Decomposition Products** 

When product is subjected to welding, burning, melting, sawing, brazing, grinding, buffing, polishing, or other similar heat-generating processes, the following potentially hazardous airborne particles and/or furnes may be generated: titanium dioxide an IARC Group 2B carcinogen. Hexavalent Chromium (Chromium VI) may cause lung, nasal, and/or sinus cancer. Vanadium pentoxide (V2O5) affects eyes, skin, respiratory system. Soluble molybdenum compounds such as molybdenum trioxide may cause lung irritation.

#### 11 TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

Inhalation

Not an expected route of exposure for product in massive form.

Eye contact

Not an expected route of exposure for product in massive form.

Skin Contact

May cause sensitization by skin contact.

Ingestion

Not an expected route of exposure for product in massive form,

Chemical Name	Oral LD50	Dermai LD50	Inhalation LC50
ron 7439-89-6	98,600 mg/kg bw		> 0.25 mg/L
Nickel 7440-02-0	> 9000 mg/kg bw	-	-
Chromium 7440-47-3	> 3400 mg/kg bw		> 5.41 mg/L
Manganese 7439-96-5	>2000 mg/kg bw	-	>5.14 mg/L
Molybdenum 7439-98-7	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.10 mg/L
Silicon 7440-21-3	> 5000 mg/kg bw	> 5000 mg/kg bw	> 2.08 mg/L
Copper 7440-50-8	481 mg/kg bw	>2000 mg/kg bw	>5.11 mg/L
Numinum 7429-90-5	15,900 mg/kg bw	•	> 1 mg/L
Fungston 7440-33-7	> 2000 mg/kg bw	> 2000 mg/kg bw	· > 5.4 mg/L
Fitanium 7440-32-6	> 5000 mg/kg bw	-	-
Зогоп 19287-88-8	_	-	
/anadium 7440-62-2	> 2000 mg/kg bw	-	•
Fantalum 7440-25-7	-	,	2.
viobium (Columbium) 7440-03-1	-	> 2000 mg/kg bw	-

#### Information on toxicological effects

**Symptoms** 

May cause sensitization by skin contact.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity

Product not classified.

Skin corrosion/irritation Serious eye damage/eye irritation Product not classified. Product not classified.

Sensitization

May cause sensitization by skin contact.

Germ cell mutagenicity

Product not classified.

Carcinogenicity

Suspected of causing cancer by inhalation. May cause cancer by inhalation.

Chemical Name	ACGIH	IARC	NTP	OSHA

Nickel	Group 1	Known	Х
7440-02-0	Group 28	Reasonably Anticipated	
Chromium 7440-47-3	Group 3		

Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard Product not classified. Product not classified.

Causes disorder and damage to the: Respiratory System.

Product not classified.

# 12 ECOLOGICAL INFORMATION

# **Ecotoxicity**

This product as shipped is not classified for aquatic toxicity. This product contains a chemical which is listed as a severe marine pollutant according to DOT

Chemical Name	Algaelaquatic plants	Fish	Toxicity to microorganisms	Crustacea
Iron 7439-89-6		The 96 h LC50 of 50% iron oxide black in water to Danio rerio was greater than 10,000 mg/L.	The 3 h EC50 of iron oxide	The 48 h EC50 of iron oxlde to Daphnia magna was greater than 100 mg/L.
Nickel 7440-02-0	NOEC/EC10 values range from 12.3 µg/l for Scenedesmus accuminatus to 425 µg/l for Pseudokirchneriella subcapitata.	The 96h LC50s values range from 0.4 mg Ni/L for Pimephales prometas to 320 mg Ni/L for Brachydanio rerlo.	for activated sludge was 33	The 48h LC60s values range from 0.013 mg NI/L for Ceriodaphnia dubia to 4970 mg NI/L for Daphnia magna.
Chromium 7440-47-3	п	-	-	-
Manganese .7439-96-5	The 72 h EC50 of manganese to Desmodesmus subspicatus was 2.8 mg of Mn/L.	The 96 h LC50 of manganese to Oncorhynchus mykiss was greater than 3.6 mg of Mn/L	The 3 h EC50 of manganese for activated sludge was greater than 1000 mg/L.	The 48 h EC50 of manganese to Daphnia magna was greater than 1.6 mg/L.
Molybdenum 7439-98-7	The 72 h EC50 of sodium molybdate dihydrate to Pseudokirchneriella subcapitate was 362,9 mg of Mo/L.	The 96 h LC50 of sodium molybdate dihydrate to Pimephales promelas was 644.2 mg/L	The 3 h EC50 of molybdenum trioxide for activated sludge was 820 mg/L.	The 48 h LC50 of sodium molybdate dihydrate to Ceriddaphnia dubia was 1,015 mg/L. The 48 h LC50 of sodium molybdate dihydrate to Daphnia magna was greater than 1,727.8 mg/L.
Silicon 7440-21-3	The 72 h EC50 of sodlum metasilicate pentahydrate to Pseudokirchnerella subcapitata was greater than 250 mg/L,	<del>-</del>	-	
Aluminum 7429-90-5	The 96-h EC50 values for reduction of biomass of Pseudokirchneriella subcapitata in AAP-Medium at pH 6, 7, and 8 were estimated as 20.1, 5.4, and 150.6 µg/L, respectively, for dissolved Al.	The 96 h LC50 of aluminum to Oncorhynchus mykiss was 7.4 mg of AI/L at pH 6.5 and 14.6 mg of AI/L at pH 7.5		The 48-hr LC50 for Ceriodaphrila dubia exposed to Aluminium chloride increased from 0.72 to greater than 99.6 mg/L with water hardness increasing from 25 to 200 mg/L.
Copper 7440-50-8	The 72 h EC50 values of copper chloride to Pseudokirchneriella subcapitate ranged between 30 µg/L (pH 7.02, hardness 250 mg/L CaCO3, DOC 1.95 mg/L) and 824 µg/L (pH 6.22, hardness 100 mg/L CaCO3, DOC 15.8 mg/L).	The 96-hr LC50 for Pimephales promelas exposed to Copper sulfate ranged from 256.2 to 38.4 ug/L with water hardness increasing from 45 to 255.7 mg/L.	The 24 h NOEC of copper chloride for activated sludge ranged from 0.32 to 0.64 mg of Cu/L.	The 48 h LC50 values for Daphnia magha exposed to copper in natural water ranged between 33.8 µg/L (pH 6.1, hardness 12.4 mg/L CaCO3, DOC 2.34 mg/L) and 792 µg/L (pH 7.35, hardness 139.7 mg/L CaCO3, DOC 22.8 mg/L).
Tungsten	The 72 h EC50 of sodium	The 96 h LC50 of sodium	The 30 min EC50 of sodium	

		<b>P</b>		L. L. MARKET M. C.	
	7440-33-7	tungstate to Pseudokirchnerella subcapitata was 31.0 mg of W/L.	tungstate to Danio rerio was greater than 106 mg of W/L.	tungstate for activated sludge were greater than 1000 mg/L.	tungstate to Daphnia magna was greater than 96 mg of W/L.
	Titanium 7440-32-6	The 72 h EC50 of titanium dipxide to Pseudokirchnerella subcapitata was 61 mg of TiO2/L.	The 96 h LC50 of titanium dioxide to Cyprinodon variegatus was greater than 10,000 mg of TiO2/L. The 96 h LC50 of titanium dioxide to Pimephales promelas was greater than 1,000 mg of TiO2/L.	The 3 h EC50 of titanium dioxide for activated sludge were greater than 1000 mg/L.	The 48 h EC50 of titanium dioxide to Daphnia Magna was greater than 1000 mg of TiO2/L.
ſ	Boron 19287-88-8	<u>-</u>	-	-	-
	Vanadium 7440-62-2	The 72 h EC50 of vanadium pentoxide to Desmodesmus subspicatus was 2,907 ug of V/L.	The 96 h LC50 of vanadium pentoxide to Pimephales promelas was 1,850 ug of V/L.	The 3 h EC50 of sodium metavanadate for activated sludge was greater than 100 mg/L.	The 48 h EC50 of sodium vanadate to Daphnia magna was 2,661 ug of V/L.
. [	Tantalum 7440-25-7	-		-	•
	Nlobium (Columbium) 7440-03-1	_	-	-	

# Persistence and degradability

# **Bloaccumulation**

Other adverse effects

This product as shipped is not classified for environmental endpoints. However, when subjected to sawing or grinding, particles may be generated that are classified for aquatic acute or aquatic chronic toxicity.

# 13. DISPUSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging

None anticipated.

1.00	
Chemical Name	RCRA - D Series Wastes
Chromium	5.0 mg/L regulatory level
7440-47-3	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

# LATRANSPORTINEGRMATION

DOT

Not regulated

# 15 REGULATORY INFORMATION

International Inventories

**TSCA** Complies Complies **DSL/NDSL** EINECS/ELINCS Complies **ENCS** Complies Complies **IECSC** Complies KECL PICCS Complies AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - Chine Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIGS - Australian Inventory of Chemical Substances

# **US Federal Regulations**

#### 8ARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372: Chromium (Cr)

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Nickel - 7440-02-0	7440-02-0	0-46	0.1
Chromium - 7440-47-3	7440-47-3	10-30	1.0
Manganese - 7439-96-5	7439-96-5	0-10	1.0
Copper - 7440-50-8	7440-50-8	0-4.0	1.0

# SARA 311/312 Hazard Categories

Acute health hazard		Yes
Chronic Health Hazard		Yes
Fire hazard	**	No
Sudden release of pressure hazard		No
Reactive Hazard		No

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Poliutants	CWA - Hazardous Substances
Nickel 7440-02-0		X	X	
Chromium 7440-47-3		Х	Х	
Copper 7440-50-8		X	X	

# **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental, Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs
Nickel	100 lb
7440-02-0	
Chromium	5000 lb
7440-47-3	
Copper	5000 lb

7440-50-8

#### **US State Regulations**

# California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Nickel - 7440-02-0	Carcinogen

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusotts	Pennsylvania
Nickel 7440-02-0	X	X	. ×
Chromium 7440-47-3	X	×	×
Мапдалеве 7439-96-5	X	×	×
Molybdenum 7439-98-7	X	×	X
Silicon 7440-21-3	Х	X	X
Copper 7440-50-8	×	×	×
Aluminum 7429-90-5	X	X	X
Tungsten 7440-33-7	X	X	Х
Titanium 7440-32-6	X		
Vanadium 7440-62-2	Х	х	х
Tantalum 7440-25-7	Х	×	X

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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NFPA

Health hazards 1

Flammability 0

Instability 0

Physical and Chemical

Health hazards 2\*

Flammability 0

Physical hazards 0

Properties -Personal protection X

Chronic Hazard Star Legend

\* = Chronic Health Hazard

Issue Date

28-May-2015

**Revision Date Revision Note**  31-Jul-2015

**Updated Section 15** 

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

Additional information available

Safety data sheets and labels available at ATImetals.com

from: