

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : White Karat Gold
Product name : Ortho FlexTech

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For professional use only.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Reliance Orthodontic Products Inc. 1540 West Thorndale Ave. Itasca, IL 60143 USA
630-773-4009, during normal business hours

1.4. Emergency telephone number

Emergency number: CHEMTREC – 24 Hour Hazmat Emergency Communications Center
Domestic: 1-800-424-9300 Outside the US: 1-703-527-3887, collect calls accepted

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Non-hazardous in solid, bulk form

Dust or fine turnings may cause:

Skin sensitivity H317
Carcinogenicity H351
STOT RE 1 H372

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

: Danger

Hazard statements (GHS-US) :

: Bulk, solid material is non-hazardous
Hazard statements for dust or fine turnings:
H317 – May cause an allergic skin reaction
H351 – Suspected of causing cancer
H372 – Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :

: Bulk, solid material is non-hazardous
For dust or fine turnings:
P201 – Obtain special instructions before use
P202 – Obtain special instructions before use
P264 – Wash skin thoroughly after handling
P270 – Do not eat, drink or smoke when using this product
P272 – Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves, eye protection
P302+P352 – IF ON SKIN: Wash with plenty of water
P308+P313 – If exposed or concerned: Get medical advice/attention
P314 – Get medical advice/attention if you feel unwell
P321 – Specific treatment
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention

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P362+P364 – Take off contaminated clothing and wash it before reuse

P405 – Store locked up

P501 – Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations

2.3. Other hazards

Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath. If heated to the point of fume generation, zinc fumes may cause metal fume fever. Otherwise, zinc is non-toxic.

This product is present in a massive form as an alloy. It does not present the same hazards when the individual components are in their powdered forms. The materials present in this product in their powdered forms present aquatic toxicity to the environment and carcinogenicity. When processed or where dust is generated a combustible dust hazard may be present. Avoid generating dust, generating sparks, ignition sources, and take all precautions.

Under normal use and handling of the solid form of this material there are few health hazards. Cutting, welding, melting, grinding etc. of these materials will produce dust, fume or particulate containing the component elements of these materials. Exposure to the dust, fume or particulate of these materials may present significant health hazards. Exposure to dust or fume may cause irritation of the eyes, skin and respiratory tract. Fine particulates dispersed in air may present an explosion hazard.

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

INGREDIENTS	%	CAS #	Classification	EC Number
Gold	<0.1 (0.1-95)	7440-57-5	H400, H410	231-165-9
Silver	<0.1 (0.1-95)	7440-22-4	H400, H410	231-131-3
Copper	5 - 90	7440-50-8	H400,H412	231-159-6
Nickel	<0.1 (0.1-30)	7440-02-0	H317, H351, H372,H400, H412	231-111-4
Zinc	1 - 30	7440-66-6	H400, H410	231-175-3

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary due to varying composition.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	:	If exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person.
Inhalation	:	When symptoms occur go into open air and ventilate suspected area. Keep at rest and in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
Skin contact	:	Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Obtain medical attention if irritation persists.
Eye contact	:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.
Ingestion	:	If ingested, Rinse mouth. Do NOT induce vomiting. Seek emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Exposure to dust or metal fumes may irritate respiratory system and result in metal fume fever.

General: May cause an allergic skin reaction. Welding, cutting, or processing this material may release dust or fumes that are hazardous.

Inhalation: Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

Skin Contact: May cause an allergic skin reaction. Dust from physical alteration of this product causes skin irritation.

Eye Contact: Dust may cause mechanical irritation to eyes, nose, throat, and lungs.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: In massive form, no hazard exists. If physically altered to present slivers, ribbons, dusts or fumes from molten material: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire: water spray, alcohol resistant foam, dry chemical or CO2 extinguisher.
- Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire. Do not use water when molten material is involved, may react violently or explosively on contact with water.

5.2. Special hazards arising from the substance or mixture

- Fire Hazard : A non-combustible material, not considered flammable but will melt at 1616 °F.
- Explosion Hazard : In molten state: reacts violently with water (moisture).
- Reactivity : Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

- Precautionary Measures Fire: : Under fire conditions, hazardous fumes will be present. In case of dust production:
- Firefighting instructions : Use self-contained breathing apparatus
- Protection during firefighting : No data available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- General Measures : Avoid all eye and skin contact and do not breathe vapor and mist.
- Protective Equipment : Use appropriate personal protective equipment based on site conditions.
- Emergency procedures : Avoid breathing dust or fumes. Use adequate ventilation. Remove all ignition sources if dust is present. Note that dust and fine shavings may be flammable. Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Use appropriate personal protective equipment based on site conditions.
- Emergency procedures : Control ignition sources and use non-sparking tools when handling dust or finely ground turnings which may be flammable. Ventilate area.

6.2. Environmental precautions

No special precautions for bulk solid material. Do not let dust or turnings enter drains/public waters.

6.3. Methods and material for containment and cleaning up

- For Containment: : Contain and collect as any solid.
- Methods for cleaning up : Clear up spills immediately and dispose of waste safely. For particulates and dust: Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE.

6.4. Reference to other sections

See Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Further processing of solid material may generate combustible dust or turnings. Provide adequate ventilation and routine maintenance to prevent the buildup of combustible dust. Implement control measures to reduce the generation of static discharge where dust is created.
- Additional Hazards When Processed : May generate flammable/explosive dusts or turnings when brushed, machined or ground. Use care during processing to minimize generation of dust. Where excessive dust may result, use approved respiratory protection equipment. Heating of product can release toxic or irritating fumes; ensure proper ventilation is employed, proper precautions are enforced, and applicable regulations are followed. Inhalation of fumes may cause metal fume fever.
- Hygiene Measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Conditions for Safe Storage : Keep container closed when not in use. Store in a dry, cool and well-ventilated place.
- Incompatibilities : Acetylene, Ammonia, oxidizers, hydrogen peroxide, strong acids and bases.
- :

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7.3. Specific end use(s)

Apart from those mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Silver (CAS No.: 7440-22-4)		
Mexico	OEL TWA (mg/m ³)	0.1 mg/m ³
USA ACGIH	ACGIH TWA (mg/m ³)	0.1 mg/m ³ (dust and fume)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.01 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.01 mg/m ³ (dust)
USA IDLH	US IDLH (mg/m ³)	10 mg/m ³ (dust)
Alberta	OEL TWA (mg/m ³)	0.1 mg/m ³
British Columbia	OEL STEL (mg/m ³)	0.03 mg/m ³
British Columbia	OEL TWA (mg/m ³)	0.01 mg/m ³
Manitoba	OEL TWA (mg/m ³)	0.1 mg/m ³ (dust and fume)
New Brunswick	OEL TWA (mg/m ³)	0.1 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m ³)	0.1 mg/m ³ (dust and fume)
Nova Scotia	OEL TWA (mg/m ³)	0.1 mg/m ³ (dust and fume)
Nunavut	OEL STEL (mg/m ³)	0.3 mg/m ³
Nunavut	OEL TWA (mg/m ³)	0.1 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	0.3 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	0.1 mg/m ³
Ontario	OEL TWA (mg/m ³)	0.1 mg/m ³ (dust and fume)
Prince Edward Island	OEL TWA (mg/m ³)	0.1 mg/m ³ (dust and fume)
Québec	VEMP (mg/m ³)	0.1 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	0.3 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	0.1 mg/m ³
Yukon	OEL STEL (mg/m ³)	0.03 mg/m ³
Yukon	OEL TWA (mg/m ³)	0.01 mg/m ³

Nickel (CAS No.: 7440-02-0)		
Mexico	OEL TWA (mg/m ³)	1 mg/m ³
USA ACGIH	ACGIH TWA (mg/m ³)	1.5 mg/m ³ (inhalable fraction)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.015 mg/m ³
USA IDLH	US IDLH (mg/m ³)	10 mg/m ³
Alberta	OEL TWA (mg/m ³)	1.5 mg/m ³
British Columbia	OEL TWA (mg/m ³)	0.05 mg/m ³
Manitoba	OEL TWA (mg/m ³)	1.5 mg/m ³ (inhalable fraction)
New Brunswick	OEL TWA (mg/m ³)	1 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m ³)	1.5 mg/m ³ (inhalable fraction)

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Nova Scotia	OEL TWA (mg/m ³)	1.5 mg/m ³ (inhalable fraction)
Nunavut	OEL STEL (mg/m ³)	2 mg/m ³
Nunavut	OEL TWA (mg/m ³)	1 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	2 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	1 mg/m ³
Ontario	OEL TWA (mg/m ³)	1 mg/m ³ (inhalable)
Prince Edward Island	OEL TWA (mg/m ³)	1.5 mg/m ³ (inhalable fraction)
Québec	VEMP (mg/m ³)	1 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	3 mg/m ³ (inhalable fraction)
Saskatchewan	OEL TWA (mg/m ³)	1.5 mg/m ³ (inhalable fraction)
Yukon	OEL STEL (mg/m ³)	3 mg/m ³
Yukon	OEL TWA (mg/m ³)	1 mg/m ³

Copper (CAS No.: 7440-50-8)		
Mexico	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
Mexico	OEL STEL (mg/m ³)	2 mg/m ³ (fume) 2 mg/m ³ (dust and mist)
USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ (fume)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1 mg/m ³ (dust and mist) 0.1 mg/m ³ (fume)
USA IDLH	US IDLH (mg/m ³)	100 mg/m ³ (dust, fume and mist)
Alberta	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
British Columbia	OEL TWA (mg/m ³)	1 mg/m ³ (dust and mist)
Manitoba	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
New Brunswick	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
Newfoundland & Labrador	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
Nova Scotia	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
Nunavut	OEL STEL (mg/m ³)	0.6 mg/m ³ (fume)
Nunavut	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
Northwest Territories	OEL STEL (mg/m ³)	0.6 mg/m ³ (fume)
Northwest Territories	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
Ontario	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
Prince Edward Island	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
Québec	VEMP (mg/m ³)	0.2 mg/m ³ (fume)
Saskatchewan	OEL STEL (mg/m ³)	0.6 mg/m ³ (fume)
Saskatchewan	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)
Yukon	OEL STEL (mg/m ³)	0.2 mg/m ³ (fume)
Yukon	OEL TWA (mg/m ³)	0.2 mg/m ³ (fume)

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8.2. Exposure controls

- 8.2.1 Appropriate Engineering Controls : Provide local exhaust when cutting, grinding, or heating. Use good industrial hygiene practices. Keep dust and fume buildup to a minimum. Avoid static discharge where dust or turnings are generated.
- 8.2.2 Personal Protective Equipment : Protective clothing. Gloves. Safety glasses. Dust formation: dust mask.



- Respiratory Protection : Respiratory protection is not required when handling bulk solid materials. Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits. Where nuisance dusts are generated, use N95 or type P1 (EN143) dust mask. Use air purifying cartridge respirator equipped with N100, R100 or P100 filters when exposed to metal fumes.
 - Skin Protection : Wear leather or Kevlar gloves when handling metal stock to prevent cuts. Wear suitable protective clothing. Wash contaminated clothing before reuse.
 - Eye Protection : Chemical goggles or safety glasses; ANSI Z87.1 approved safety glasses with side shields
- 8.2.3 Environmental Exposure Controls : Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid metal yellowish to white in color
Appearance	: Metallic
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 85.0 °F – 3215.0 °F Nominal
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific Gravity	: 6.30 – 12.00
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not expected to present an explosion hazard due to mechanical impact or static discharge.
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal temperatures and pressures, handling and storage conditions.

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10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Overheating during brazing, soldering or melting. Avoid creating or spreading dust.

10.5. Incompatible materials

Avoid acetylene, ammonia, oxidizers, hydrogen peroxide, strong acids and bases. If molten avoid water.

10.6. Hazardous decomposition products

Inhalation of fumes may cause metal fume fever.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: No data available.
LD50 and LC50 Data	: No data available.
Skin corrosion/irritation	: No data available.
Serious eye damage/irritation	: No data available.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: No data available.
Carcinogenicity	: Suspected of causing cancer: Nickel which is a component of this product present at levels greater than or equal to 0.1% has been identified as a probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA
Reproductive toxicity	: Nickel is suspected to cause reproductive toxicity
Specific target organ toxicity (single exposure)	: Nickel may cause sensitization
Specific target organ toxicity (repeated exposure)	: No data available
Aspiration hazard	: No data available

Potential Adverse human health effects and symptoms:

Symptoms/Injuries After Inhalation	: Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.
Symptoms/Injuries After Skin Contact	: May cause an allergic skin reaction. Dust from physical alteration of this product causes skin irritation.
Symptoms/Injuries After Eye Contact	: Dust may cause mechanical irritation to eyes, nose, throat, and lungs.
Symptoms/Injuries After Ingestion	: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms	: In massive form, no hazard exists. If physically altered to present slivers, ribbons, dusts or fumes from molten material: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Information on Toxicological Effects - Ingredient(s) LD50 and LC50 Data:

Silver (CAS No.: 7440-22-4)	
LD50 Oral Rat	> 2000 mg/kg
Nickel (CAS No.: 7440-02-0)	
LD50 Oral Rat	> 9000 mg/kg
IARC Group	2B
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.

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SECTION 12: Ecological information

12.1. Toxicity

Zinc (CAS No.: 7440-66-6)	
LC50 Fish 1	2.16 - 3.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.139 - 0.908 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC 50 Fish 2	0.211 - 0.269 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])

Silver (CAS No.: 7440-22-4)	
LC50 Fish 1	0.00155 - 0.00293 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	0.00024 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC 50 Fish 2	0.0062 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
NOEC chronic fish	390 ng/l (Exposure time: 28d - Species: Pimephales promelas)

Nickel (CAS No.: 7440-02-0)	
LC50 Fish 1	100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	13 (13 - 200) µg/l (Exposure time: 48h - Species: Ceriodaphnia dubia [static])
LC 50 Fish 2	1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 Other Aquatic Organisms 2	0.174 (0.174 - 0.311) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])

Copper (CAS No.: 7440-50-8)	
LC50 Fish 1	<= 0.0068 (0.0068 - 0.0156) mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 Other Aquatic Organisms 1	0.0426 (0.0426 - 0.0535) mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
LC 50 Fish 2	0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Other Aquatic Organisms 2	0.031 (0.031 - 0.054) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])

12.2. Persistence and degradability

Casting Alloys & Pure Metals	
Copper (CAS No.: 7440-50-8)	Not established.

12.3. Bioaccumulative potential

Casting Alloys & Pure Metals	
Bioaccumulative Potential	Not established.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB Assessment

No data available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste Treatment Methods : Surplus materials may have reclaim value. Dispose of unsalvageable material in accordance with applicable Federal, State/Provincial, Local and International regulations. Subject to federal disposal regulations: US EPA 40CFR262

SECTION 14: Transport information

Not regulated as a dangerous good per US DOT 49 CFR 171-180 or UN Dangerous Goods List.

14.1 UN Number

Not Assigned

14.2 UN Proper Shipping Name

Not Applicable

14.3 Transport Hazard Class

Not Regulated – no hazard assigned

14.4 Packing Group

Not Applicable

14.5 Environmental Hazards

No data Available

14.6 Transport in Bulk

Not Applicable

14.7 Special Precaution for User

No Special Precautions

SECTION 15: Regulatory information

15.1. Safety, Health and Environmental regulations/legislation specific for substance or mixture

US Federal Regulations

Casting Alloys & Pure Metals

SARA Section 311/312 Hazard Classes

Delayed (chronic) health hazard

Zinc (7440-66-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting

1.0 % (dust or fume only)

Silver (7440-22-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313

RQ (Reportable Quantity, Section 304 of EPA's List of Lists):

1000 lb < 100 um CERCLA/SARA RQ CHANGE TITLE

SARA Section 313 - Emission Reporting

1.0 %

Nickel (7440-02-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313

RQ (Reportable Quantity, Section 304 of EPA's List of Lists):

100 lb (only applicable if particles are < 100 µm)

SARA Section 313 - Emission Reporting

0.1 %

Copper (7440-50-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting

1.0 %

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US State Regulations

Nickel (7440-02-0)

U.S. - California - Proposition 65 - Carcinogens List

WARNING: This product contains chemicals known to the State of California to cause cancer.

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) List

Zinc (7440-66-6)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

Silver (7440-22-4)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

Copper (7440-50-8)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

Canadian Regulations

Casting Alloys & Pure Metals

WHMIS
Classification

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects



Zinc (7440-66-6)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification

Uncontrolled product according to WHMIS classification criteria

Silver (7440-22-4)

Listed on the Canadian DSL (Domestic Substances

List) Listed on the Canadian IDL (Ingredient Disclosure

List)

Ortho FlexTech

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

IDL Concentration 1 %	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

Nickel (7440-02-0)	
Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 0.1 %	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Copper (7440-50-8)	
Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: Other information

NFPA Rating	HMIS Rating
Health Hazard : 1	Health Hazard : 2
Fire Hazard: 0	Fire Hazard: 0
Reactivity Hazard: 0	Reactivity Hazard: 0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product