



# Safety Data Sheet

## STAINLESS STEEL

### SECTION 1: PRODUCT DESCRIPTION

#### PRODUCT IDENTIFIER

Product form: Solid  
Product Name: Stainless Steel  
Formula: N/A  
Synonyms: SST

#### SUPPLIER

**SPIRA MANUFACTURING CORP.**  
650 JESSIE ST.  
SAN FERNANDO, CA 91340  
PH: 818-764-8222  
FX: 818-764-9880

#### INTENDED USE OF PRODUCT

Use: Industrial; professional use only

#### EMERGENCY TELEPHONE NUMBER

CHEMTEL 24 HR Emergency number: 1-800-255-3924

### SECTION 2: HAZARD IDENTIFICATION

#### GHS 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



# DANGER

#### HAZARD STATEMENTS:

Suspected of causing cancer  
May cause an allergic skin reaction  
Causes damage to respiratory track prolonged or repeated exposure if inhaled

#### PRECAUTIONARY STATEMENTS:

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/

#### PRECAUTIONARY STATEMENTS - DISPOSAL:

Dispose of contents/container to an approved waste disposal plant

#### HAZARDS NOT OTHERWISE CLASSIFIED:

Not applicable

#### OTHER INFORMATION:

When this 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 fumes may be generated: Zinc, copper, magnesium, or cadmium fumes may cause metal fumes 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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS 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
Silicone	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

## SECTION 4: FIRST AID MEASURES

**General First-aid Measures:** Never give an unconscious person anything by mouth. If you feel unwell, seek medical attention. (show label when possible)

**INHALATION:** If excessive amounts of vapors, smoke, fume, or particles are inhaled during processing, remove to fresh air and consult a qualified health professional..

**EYES:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**SKIN CONTACT:** In the case of skin irritation or allergic reactions see a physician. **Molten Metal:** Flush contact area to solidify and cool but do not attempt to remove encrusted material or clothing. Cover burns and seek medical attention immediately.

### 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

## SECTION 5: FIRE FIGHTING PROCEDURES

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

**UNSUITABLE 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 HAZARD 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 (V<sub>2</sub>O<sub>5</sub>) 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.

### EXPLOSIVE DATA

**SENSITIVITY TO MECHANICAL IMPACT:** None

**SENSITIVITY TO STATIC DISCHARGE:** None

**FIRE FIGHTING METHODS AND PROTECTION:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

## SECTION 6: SPILL OR LEAK MEASURES/PRODEDURES

### STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:

#### Personal precautions, 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.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling:** 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.

### 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.

## SECTION 8: PROTECTION INFORMATION

### CHEMICAL NAME: STAINLESS STEEL

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

### Appropriate engineering controls

**Engineering Controls** Avoid generation of uncontrolled particles.

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

<b>Eye/face protection</b>	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.
<b>Skin and body protection</b>	Fire/flammable 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.
<b>Respiratory protection</b>	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 contaminant 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.

## SECTION 9: PHYSICAL DATA

### Information on basic physical and chemical

<b>Physical state</b>	Solid
<b>Appearance</b>	Various massive product forms
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not applicable
<b>Color</b>	metallic, gray

Property	Values	Remarks / method
pH	-	
Melting point/Freezing point	1430 – 1540 °C / 2600 – 2800 °F	
Boiling point / Boiling range	-	
Flash Point	-	
Evaporation rate	-	Not Applicable
Flammability (solid, gas)	-	Not flammable in the form of this product as distributed, flammable as finely divided particles or pieces resulting from processing of this product
Flammability limit in air		Not Applicable
Upper flammability limit	-	
Lower flammability limit	-	
Vapor pressure	-	Not Applicable
Vapor Density	-	Not Applicable
Specific Gravity	7 – 9	
Water solubility	Insoluble	Insoluble
Solution in other solvents	-	Not Applicable
Partition coefficient	-	Not Applicable
Autoignition temperature	-	Not Applicable
Decomposition temperature	-	Not Applicable
Kinematic viscosity	-	Not Applicable
Dynamic viscosity	-	Not Applicable
Explosive properties	Not Applicable	
Oxidizing properties	Not Applicable	
<b>Other Information</b>		
Softening point	-	
Molecular Weight	-	
VOC Content (%)	Not Applicable	
Density	-	
Bulk Density	-	

## SECTION 10: REACTIVITY DATA

**REACTIVITY:** Molten form may react violently with water.

**CHEMICAL STABILITY:** Stable under recommended handling and storage conditions. (see section 7)

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will 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 fumes 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.

**SECTION 11: TOXICITY DATA**

**ROUTES OF ENTRY:** Skin contact.

**SYMPTOMS (ACUTE):** Reproductive systems

**DELAYED EFFECTS:** No data available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Iron 7439-89-6	98,600 mg/kg bw	-	> 0.25 mg/L
Nickel 7440-02-0	> 9000 mg/kg bw	-	> 10.2 mg/L
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
Aluminum 7429-90-5	15,900 mg/kg bw	-	> 1 mg/L
Tungsten 7440-33-7	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.4 mg/L
Titanium 7440-32-6	> 5000 mg/kg bw	-	-
Boron 19287-88-8	> 2000 mg/kg bw	-	-
Vanadium 7440-62-2	> 2000 mg/kg bw	-	-
Tantalum 7440-25-7	> 2000 mg/kg bw	> 2000 mg/kg bw	> 5.18 mg/L
Niobium (Columbium) 7440-03-1	> 10,000 mg/kg bw	> 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:** Product not classified.  
**Serious eye damage/eye irritation:** Product not classified.  
**Sensitization:** May cause sensitization by skin contact.  
**Germ cell mutagenicity:** Product not classified.  
**Carcinogenicity:** May cause cancer by inhalation.

Chemical Name	ACGIH	IARC	NTP	OSHA
Nickel 7440-02-0		Group 1 Group 2B	Known Reasonably Anticipated	X
Chromium 7440-47-3		Group 3		

**Reproductive toxicity:** Product not classified.  
**STOT - single exposure:** Product not classified.  
**STOT - repeated exposure:** Causes disorder and damage to the: Respiratory System.  
**Aspiration hazard:** Product not classified.

## SECTION 12: ECOLOGICAL DATA

### 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 IMDG/IMO

Chemical Name	Algae / Aquatic 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 for activated sludge was greater than 10,000 mg/L.	The 48 h EC50 of iron oxide 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 promelas to 320 mg Ni/L for Brachydanio rerio.	The 30 min EC50 of nickel for activated sludge was 33 mg Ni/L.	The 48h LC50s values range from 0.013 mg Ni/L for Ceriodaphnia dubia to 4970 mg Ni/L for Daphnia magna
Chromium 7440-47-3	-	-	-	-
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 subcapitata 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 Ceriodaphnia 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 sodium metasilicate pentahydrate to Pseudokirchnerella subcapitata was greater than 250 mg/L.	-	-	-
Copper 7440-50-8	The 72 h EC50 values of copper chloride to Pseudokirchneriella subcapitata ranged between 30 µg/L (pH 7.02, hardness 250 mg/L CaCO <sub>3</sub> , DOC 1.95 mg/L) and 824 µg/L (pH 6.22, hardness 100 mg/L CaCO <sub>3</sub> , DOC 15.8 mg/L).	The 96-hr LC50 for Pimephales promelas exposed to Copper sulfate ranged from 256.2 to 38.4 µg/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 magna exposed to copper in natural water ranged between 33.8 µg/L (pH 6.1, hardness 12.4 mg/L CaCO <sub>3</sub> , DOC 2.34 mg/L) and 792 µg/L (pH 7.35, hardness 139.7 mg/L CaCO <sub>3</sub> , DOC 22.8 mg/L).
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 Al/L at pH 6.5 and 14.6 mg of Al/L at pH 7.5	-	The 48-hr LC50 for Ceriodaphnia 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.
Tungsten 7440-33-7	The 72 h EC50 of sodium tungstate to Pseudokirchnerella subcapitata was 31.0 mg of W/L	The 96 h LC50 of sodium tungstate to Danio rerio was greater than 106 mg of W/L.	The 30 min EC50 of sodium tungstate for activated sludge were greater than 1000 mg/L.	The 48 h EC50 of sodium tungstate to Daphnia magna was greater than 96 mg of W/L.
Titanium 7440-32-6	The 72 h EC50 of titanium dioxide to Pseudokirchnerella subcapitata was 61 mg of TiO <sub>2</sub> /L.	The 96 h LC50 of titanium dioxide to Cyprinodon variegatus was greater than 10,000 mg of TiO <sub>2</sub> /L. The 96 h LC50 of titanium dioxide to Pimephales promelas was greater than 1,000 mg of TiO <sub>2</sub> /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 TiO <sub>2</sub> /L.
Boron 19287-88-8	The 72-h EC50 value for reduction of biomass of Pseudokirchneriella subcapitata exposed to Boric acid at pH 7.5 to 8.3 was 40.2 mg/L	The 96-hr LC50 for Pimephales promelas exposed to Boric acid (82%)/borax (18%) mixture was 79.7 mg/L with water hardness of 91 mg/L and water pH of 8.0.	The 3 h NOEC of boric acid for activated sludge ranged from 17.5 to 20 mg/L.	The 48-hr LC50 for Ceriodaphnia dubia exposed to Boric acid/borax mixture ranged from 91 to 165 mg/L with pH ranging from 6.7 to 8.4.
Vanadium 7440-62-2	The 72 h EC50 of vanadium pentoxide to Desmodesmus subspicatus was 2,907 µg of V/L.	The 96 h LC50 of vanadium pentoxide to Pimephales promelas was 1,850 µg 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 µg of V/L.
Tantalum 7440-25-7	-	-	-	-
Niobium (Columbium) 7440-03-1	-	-	-	-

**Persistence and degradability:** N/A  
**Bioaccumulation:** N/A  
**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.

## SECTION 13: DISPOSAL INFORMATION

### Waste treatment methods

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations.  
**Contaminated packing:** None anticipated

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

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

## SECTION 14: TRANSPORT INFORMATION

**Contaminated packaging** None anticipated.

- 14.1. In Accordance with DOT** Not regulated for transport.  
**14.2. In Accordance with IMDG** Not regulated for transport.  
**14.3. In Accordance with IATA** Not regulated for transport.

## SECTION 15: REGULATORY INFORMATION

### International Inventories

**TSCA** Complies  
**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL** Complies  
**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** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 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	0 - 46	0.1
Chromium	7440-47-3	10 - 30	1.0
Manganese	7439-96-5	0 - 10	1.0
Copper	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 Pollutants	CWA - Hazardous Substances
Nickel 7440-02-0		X	X	
Chromium 7440-47-3		X	X	
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 7440-02-0	100 lb
Chromium 7440-47-3	5000 lb
Copper 7440-50-8	5000 lb

**US State Regulations**

**California Proposition 65:** **WARNING:** This product contains the following chemicals, known to the state of California, to cause cancer and birth defects or other reproductive harm

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

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Iron 7439-89-6	X	X	X
Nickel 7440-02-0	X	X	X
Chromium 7440-47-3	X	X	X
Manganese 7439-96-5	X	X	X
Molybdenum 7439-98-7	X	X	X
Silicon 7440-21-3	X	X	X
Copper 7440-50-8	X	X	X
Aluminum 7429-90-5	X	X	X
Tungsten 7440-33-7	X	X	X
Titanium 7440-32-6	X		
Boron 19287-88-8	X	X	X
Vanadium 7440-62-2	X	X	X
Tantalum 7440-25-7	X	X	X
Niobium (Columbium) 7440-03-1	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number: Not applicable



**REVISED: MAY 2020**

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Spira Manufacturing Corp. makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

**GLOSSARY:**

**ACGIH:** American Conference of Governmental Industrial Hygienists

**CAS:** Chemical Abstract Service Number

**CERCLA:** Comprehensive Environmental Response, Compensation, and Liability Act

**DOT:** U.S. Department of Transportation

**IARC:** International Agency for Research on Cancer

**N/A:** Not Available

**IDLH:** Immediately dangerous to life and health

**NTP:** National Toxicology Program

**OSHA:** Occupational Safety and Health Administration

**PEL:** Permissible Exposure Limit

**PPM:** Parts per million

**RCRA:** Resource Conservation and Recovery Act

**SARA:** Superfund Amendments and Reauthorization Act

**TLV:** Threshold Limit Value

**TSCA:** Toxic Substances Control Act

**END OF SDS**