
	WELDING MATERIAL SALES	SDS# 901
	SAFETY DATA SHEET STAINLESS STEEL WELDING MATERIAL	Date: August 1, 2018

SECTION 1:	IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY INFORMATION
1.1 Company Name:	WELDING MATERIAL SALES
1.2 Corporate Address:	1340 REED ROAD GENEVA, IL 60134
1.3 Manufacturing Address:	1340 REED ROAD GENEVA, IL 60134
1.4 Phone No.:	630-232-6421
1.5 Fax No.:	888-733-1512
1.6 Emergency Phone No.:	800-424-9300
1.7 Safety Data Sheet (SDS) No.:	901
1.8 Product Name and Specification:	Stainless Steel in wire form, according to AWS standards AWS Specification SFA-5.9/SFA-5.9M
1.9 Other means of Classification:	Stainless Steel Grades ER308/308L, ER308LSI, ER309/309L, ER309LSI, ER310, ER312, ER316/316L, ER316LSI, ER317L, ER347, ER410, ER410NiMo, ER2209, BD-3000T

SECTION 2:	HAZARD (S) IDENTIFICATION
2.1 Classification of the substance or mixture:	<p>Stainless Steel is considered as “article” and not hazardous in its solid form. However certain process such as cutting, milling, grinding, melting and welding could result in emission of some hazardous material. The GHS Classification below pertains to these emitted products during these processes.</p> <p>GHS-US Classification</p> <p>Acute Tox. 4 (Oral) H302 Skin Sens. 1 H317 Carc. 1B H350 STOT RE 1 H372 Aquatic Acute 1 H400 Aquatic Chronic 3 H412</p>

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2.2 Label Elements:

GHS-US labelling:



GHS07

GHS08

GHS09

Signal Word(GHS-US):


Danger

Hazard Statements (GHS-US):

- H302 - Harmful if swallowed
- H317 - May cause an allergic skin reaction
- H350 - May cause cancer
- H372 - Causes damage to organs through prolonged or repeated exposure
- H400 - Very toxic to aquatic life
- H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US):

- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
- P264 - Wash thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P272 - Contaminated work clothing should not be allowed of the workplace
- P273 - Avoid release to the environment
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water
- P308+P313 - IF exposed or concerned: Get medical advice/attention
- P314 - Get medical advice and attention if you feel unwell
- P321 - Specific treatment (see label)
- P330 - If swallowed, rinse mouth

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<p>2.3 Other Hazards:</p> <p>2.4 Unknown acute toxicity (GHS-US):</p>	<p>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P391 - Collect spillage P405 - Store locked up P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.</p> <p>No additional information available.</p> <p>No data available</p>
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SECTION 3:	COMPOSITION / INFORMATION ON INGREDIENTS
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3.1 Substances:	Not Applicable Full text of H-phrases, see section 16
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3.2 Mixtures:		Product Identifier						
Name	% By Weight	CAS Number	EC Number	ACGIH TLV (mg/m ³)	H-SYMBOL	R-PHRASES	SEC 313	GHS-US Classification
Iron (Fe)	Balance	7439-89-6	231-096-4	10 AS Fe ₂ O ₃	NA	NA	NA	Acute Tox. 4 (Oral), H302
Nickel (Ni)	0.06-37.0	7440-02-0	231-111-4	1	Xn	R40/R43	YES	Skin Sens. 1, H317, Carc.1B, H350 STOT RE 1, H372
Chromium (Cr)	11.5-37.0	7440-47-3	231-157-5	0.05 Chromium VI	NA	NA	YES	Not Classified
Manganese (Mn)	0.6-14.0	7439-96-5	231-105-1	1	NA	NA	YES	Not Classified
Silicon (Si)	0.30-5.0	7440-21-3	231-130-8	3 AS SiO ₂	NA	NA	NA	Not Classified
Molybdenum (Mo)	0.05-6.0	7439-98-7	231-107-2	10	NA	NA	NA	Not Classified
Carbon (C)	0-1.0	7440-44-0	231-153-3	2	NA	NA	NA	Not Classified
Phosphorus (P)	0-0.50	7723-14-0	231-768-7	0.02-0.1	NA	NA	NA	Not Classified
Aluminum (Al)	<0.1	7429-90-3	231-072-3	NA	NA	NA	NA	Not Classified
Cobalt (Co)	<0.2	7440-48-4	231-158-0	NA	Xn	R42/R43	NA	Not Classified
Sulfur (S)	0-0.50	7704-34-9	231-722-6	NA	NA	NA	NA	Not Classified
Nitrogen (N)	0-0.50	7727-37-9	231-783-9	NA	NA	NA	NA	Not Classified
Copper (Cu)	0-5.0	7440-50-8	231-159-6	1	NA	NA	NA	Not Classified
Titanium (Ti)	0-1.0	7440-32-6	231-142-3	NA	NA	NA	NA	
Niobium (Nb)	0-1.0	7440-03-1	231-113-5	NA	NA	NA	NA	Not Classified

Xn = Harmful, R40 = Possible risks of irreversible effects, R43 = May cause sensitization by skin contact.
EC1272/2008, Car.2 H351, STOT RE 1 H372, SKIN SENS 1 H317
EC67/548/EEC, Cat.3R40, T:R48/23, SKIN Sens 1R43



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SECTION 4:

FIRST AID MEASURES

4.1 Description of First Aid Measures:

No first aid measures required for unused wire, during welding process of wire refer below

First-aid measures after inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

First-aid measures after skin contact:
Flush with water for at least 15 minutes. Seek medical attention if irritation develops or persists.

First-aid measures after eye contact:
Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists.

First-aid measures after ingestion:
Do NOT induce vomiting. Get immediate medical attention.


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

Symptoms/injuries after inhalation:
Short-term (acute) overexposure to the gases, fumes, and dusts may include irritation of the eyes, lungs, nose & throat. Some toxic gases associated with welding may cause pulmonary edema, asphyxiation & death.
Acute overexposure may include signs and symptoms such as watery eyes, nose & throat irritation, headache, dizziness, difficulty in breathing, frequent coughing, or chest pain. The presence of chromium/chromate in fume can cause irritation of nasal membranes and skin. The presence of nickel compounds in fume can cause metallic taste, nausea, tightness of chest, fever, and allergic reaction. Excessive inhalation or ingestion of manganese can produce manganese poisoning. Overexposure to manganese compounds may affect the central nervous system, symptoms of which are languor, sleepiness, muscular weakness, emotional disturbances, and spastic gait resembling Parkinsonism. These symptoms can become progressive and permanent if not treated. Excessive inhalation of fumes may cause "Metal Fume Fever" with Flu-like symptoms such as chills, fever, body aches, vomiting, sweating, etc.

Symptoms/injuries after skin contact:
Dusts may cause irritation.

Symptoms/injuries after eye contact:
Causes eye irritation

Symptoms/injuries after ingestion:
Not an anticipated route of exposure during normal product handling. May be harmful if ingested.

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SECTION 5:	FIRE FIGHTING MEASURES
5.1 Flash point & extinguishing media:	Flash point: Nonflammable Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire. No specific recommendations for welding consumables. Unsuitable extinguishing media: None
5.2 Special hazards arising from the substance or mixture:	Fire hazard: Not flammable Explosion hazard: None
5.3 Advice for firefighters:	Protection during firefighting: Firefighters should wear full protective equipment.
5.4 Unusual Hazards:	No specific measures required when stainless steel wire not used in welding. Welding arc and sparks can ignite combustibles and flammables Refer to American National Standard Z49.1 for fire prevention during the use of welding and allied procedures.
SECTION 6:	ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures:	For non-emergency personnel: No additional information available For emergency responders: No additional information available
6.2 Environmental precautions:	Avoid release to the environment
6.3 Methods and material for containment and cleaning up:	For Containment: No special measures required Methods for cleaning up: Attempt to reclaim the product if possible.
6.4 Reference to other sections:	No additional information available
SECTION 7:	HANDLING AND STORAGE
7.1 Handling And Storage Precautions:	The straps or bands used to secure wire in coils or carriers may spring back when straps/bands are cut, could cause eye/ injury to body. Sharp edges may cause injury to body. Product is stable in storage. In case of welding, avoid inhaling welding fumes, use exhausts system. Make sure inhaled air does not contain fume constituents above permissible exposure levels. <i>Other precautions for additional safety information on welding and cutting, see American standard Z49.1-1983, Safety in Welding & Cutting, and the Welding Handbook, Vol. 1, Chapter 9, Safe Practices in Welding and Cutting, both available from American Welding Society</i>



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Inc., 550 N.W. Lejune Rd., Miami, FL 33126.

SECTION 8:

EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Nickel (7440-02-0)		
USA ACGIH	ACGIH TWA (mg/m ³)	1.5 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³

Chromium (7440-47-3)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³

Copper (7440-50-8)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³

Manganese (7439-96-5)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.1 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³

Molybdenum (7439-98-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³

Silicon (7440-21-3)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³

8.2 Exposure controls:

Appropriate engineering controls:

Local exhaust and general ventilation must be adequate to meet exposure standards.

Hand protection:


Wear welding gloves.

Eye protection:


Wear helmet or face shield with filter lens of appropriate shade number. See ANSI/ASC Z49.1 Section 4.2. Provide protective screens and flash goggles, if necessary, to shield others.

Skin and body protection:

Wear head and body protection, which help to prevent injury from radiation, sparks, flame and electrical shock. See ANSI Z49.1. At a minimum this includes welder's gloves and a protective face shield, and may include arm protectors, aprons,

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<p>8.3 Routes of Entry:</p> <p>8.4 Health Hazards:</p> <p>8.5 Carcinogenicity:</p> <p>8.6 Signs & Symptoms of Exposure:</p>	<p>hats, shoulder protection, as well as dark substantial clothing. Train the employee not to touch live electrical parts and to insulate him/herself from work and ground. Welders should not wear short sleeve shirts or short pants.</p> <p>Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.</p> <p>Inhalation, Skin contact, ingestion.</p> <p>Electric arc-welding may create: fumes and gases can be dangerous. Arc rays can injure eyes and burn skin. Electric shocks can kill.</p> <p>The State of California requires the following information: Warning: This product contains chemicals known to the State of California to cause cancer.</p> <p>See below:</p> <p>Medical Conditions From Exposure: Short term to welding fumes-dizziness nausea, dryness & irritation of nose, eyes and throat, chest tightness, fever, allergic reaction. Long term siderosis, believed to affect pulmonary function.</p> <p>Additional Information: NA</p> <p>Respiratory Measures: Use respirator or air supplied respirator when welding or brazing in confined space, or where local exhaust or ventilation is not sufficient to keep exposure values within safe limits.</p> <p>Ventilation: Use enough local ventilation and local exhaust at arc to keep away fumes and gases from worker's breathing zone and general area, trained worker to wear PPE to avoid fumes and gases.</p> <p>Protective Gloves: See other protective equipment.</p> <p>Eye / Body Protection: Wear hand, eyes, ear and body protection like welders gloves, helmet, face shield with filter lens, protective screens, apron, safety boots, and flash goggles. Keep protective clothing clean and dry.</p> <p>Other Protective Equipment: Hand, head, body protection to prevent injury from radiation, sparks and electrical shock. Do not touch live electrical parts and insulate from work and ground.</p> <p>Work/Hygienic Practices:</p>
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	For maximum safety: be certified for, and wear respirator at all times when welding or brazing.
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SECTION 9:	PHYSICAL AND CHEMICAL PROPERTIES
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9.1 Information on basic physical and chemical properties:	Physical State: Solid Appearance: Rods or wire Color: Metallic Appearance & Odor: Bare Filler Metals/Stainless Steel wire are solid wire, shiny bright steel appearance or in matt finish and are odorless. Odor threshold: No data available pH: No data available Relative evaporation rate (butyl acetate=1): No data available Density(Air=1): 7.7-8.1g/cm ³ Melting point: Approximately 1600-2100 °C depending on alloy grade Thermal expansion at room temp.: 10-18 X10 ⁻⁶ per °C Thermal Conductivity: 20-30 W/m °C Evaporation Rate: NA Freezing point: No data available Boiling point: No data available Flash point: No data available Self ignition temperature: No data available Decomposition temperature: No data available Flammability (solid, gas): No data available Vapor pressure: No data available Relative vapor density: No data available Water Solubility: Insoluble Log Pow: No data available Log Kow: No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available Explosive properties: No data available Oxidizing properties: No data available Magnetism: Austenitic stainless steel is non-magnetic at annealed condition. Duplex, ferritic and martensitic stainless steels are ferro-magnetic
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SECTION 10:	STABILITY AND REACTIVITY
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10.1 Reactivity:	No additional information available
10.2 Chemical stability:	The product is stable at normal handling and storage conditions.

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<p>10.3 Possibility of hazardous reaction /hazardous Polymerization:</p> <p>10.4 Incompatible material:</p> <p>10.5 Hazardous decomposition products:</p>	<p>Will not occur</p> <p>None</p> <p>Welding fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being welded, the process, procedure and welding consumables used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coating on the metal being welded (i.e. paint, painting, galvanizing), the number of welders, the volume of the work area, the quality and the amount of ventilation, the position of the welders head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from the cleaning and degreasing activities).</p> <p>When an electrode is consumed, the fume and gas decomposition products generated are different in percent and form from the ingredients listed in Section 3. Fume and gas decomposition, and not the ingredients in the electrode, are important. The concentration of a given fume or gas component may decrease or increase by many times the original concentration. Also, new compounds not in the electrodes may form.</p> <p>Decomposition products of normal operation include those originating from the volatilization, reaction or oxidation of the materials shown in Section 3, plus those from the base metal coating, etc., as noted above.</p> <p>Reasonable expected fume constituents of this product would include: Complex oxides of iron, manganese, silicon, chromium, nickel, columbium, molybdenum, copper, carbon dioxide, carbon monoxide, ozone and nitrogen oxides. Some products will also contain antimony, barium, molybdenum, aluminum, columbium, magnesium, strontium, tungsten, and or zirconium. Present OSHA exposure limit for hexavalent chromium, nickel and or manganese may be reached before limit of 5 mg/m³ of general welding fumes is reached.</p> <p>Gaseous reaction products may include carbon monoxide and carbon dioxide, ozone and nitrogen oxides may be formed by the radiation from the arc in addition to shielding gas like argon and helium when employed. Determine the composition and quantity of fumes and gases to which workers are exposed by taking an air sample from inside the welder's helmet if worn or in the worker's breathing zone. Improve ventilation if exposures are not below limits.</p>
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See ANSI/AWS F1.1, F1.3 and F1.5, available from the American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126. See AWS publications- "Fumes & gases in the welding environment" & "Effects of welding on health"


10.6 Conditions To Avoid: No specific action required in use /prior to use. In case of filler wire prohibit welding in areas where solvents are used because halogenated solvents may produce toxic/irritant gases.

SECTION 11:	TOXICOLOGICAL INFORMATION
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<p>11.1 Information on toxicological effects:</p>	<p>Acute toxicity: Harmful if swallowed.</p> <table border="1" style="width: 100%; margin-bottom: 10px;"> <tr style="background-color: #cccccc;"><td colspan="2" style="text-align: center;">Nickel (7440-02-0)</td></tr> <tr><td style="width: 70%;">LD50 oral rat</td><td style="text-align: center;">>9000 mg/kg</td></tr> </table> <table border="1" style="width: 100%; margin-bottom: 10px;"> <tr style="background-color: #cccccc;"><td colspan="2" style="text-align: center;">Iron (7439-89-6)</td></tr> <tr><td style="width: 70%;">LD50 oral rat</td><td style="text-align: center;">984 mg/kg</td></tr> <tr><td>ATE (oral)</td><td style="text-align: center;">984.000 mg/kg</td></tr> </table> <table border="1" style="width: 100%; margin-bottom: 10px;"> <tr style="background-color: #cccccc;"><td colspan="2" style="text-align: center;">Manganese (7439-96-5)</td></tr> <tr><td style="width: 70%;">ATE (oral)</td><td style="text-align: center;">9000000.000 mg/kg</td></tr> </table> <table border="1" style="width: 100%; margin-bottom: 10px;"> <tr style="background-color: #cccccc;"><td colspan="2" style="text-align: center;">Silicon (7440-21-3)</td></tr> <tr><td style="width: 70%;">ATE (oral)</td><td style="text-align: center;">3160.000 mg/kg</td></tr> </table> <p>Skin corrosion/irritation: Not classified Serious eye damage/irritation: Not classified Respiratory or skin sensitization: May cause an allergic skin Reaction Germ cell mutagenicity: Not classified Carcinogenicity: May cause cancer</p> <table border="1" style="width: 100%; margin-bottom: 10px;"> <tr style="background-color: #cccccc;"><td colspan="2" style="text-align: center;">Nickel (7440-02-0)</td></tr> <tr><td style="width: 70%;">IARC group</td><td style="text-align: center;">2B</td></tr> <tr><td>National Toxicity Program (NTP) Status)</td><td style="text-align: center;">3</td></tr> </table> <table border="1" style="width: 100%; margin-bottom: 10px;"> <tr style="background-color: #cccccc;"><td colspan="2" style="text-align: center;">Chromium (7440-47-3)</td></tr> <tr><td style="width: 70%;">IARC group</td><td style="text-align: center;">3</td></tr> </table> <p>Reproductive Toxicity: Not classified Specific target organ toxicity: (single exposure): Not classified Specific target organ toxicity: (repeated exposure): Causes damage to organs through prolonged or repeated exposure. Aspiration hazard: Not classified</p> <p>Nickel And Chromium and their compounds are on the list of</p>	Nickel (7440-02-0)		LD50 oral rat	>9000 mg/kg	Iron (7439-89-6)		LD50 oral rat	984 mg/kg	ATE (oral)	984.000 mg/kg	Manganese (7439-96-5)		ATE (oral)	9000000.000 mg/kg	Silicon (7440-21-3)		ATE (oral)	3160.000 mg/kg	Nickel (7440-02-0)		IARC group	2B	National Toxicity Program (NTP) Status)	3	Chromium (7440-47-3)		IARC group	3
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11.2 Carcinogenicity Information:	International Agency for Research on Cancer as Carcinogenic.																																		
SECTION 12:																																			
12.1 Toxicity:	<table border="1" style="width: 100%;"> <tr> <th colspan="2" style="text-align: left;">ECOLOGICAL INFORMATION</th> </tr> <tr> <td colspan="2">Ecology-General: Very toxic to aquatic life</td> </tr> <tr> <td colspan="2">Nickel (7440-02-0)</td> </tr> <tr> <td>LC50 fishes 1</td> <td>> 100 mg/l (Exposure time: 96h-Species : Brachdanio rerio)</td> </tr> <tr> <td>EC50 Daphnia 1</td> <td>> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td> </tr> <tr> <td>EC50 other aquatic organisms 1</td> <td>0.18 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)</td> </tr> <tr> <td>LC50 fishes 1</td> <td>1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])</td> </tr> <tr> <td>EC50 Daphnia 1</td> <td>1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</td> </tr> <tr> <td>EC50 other aquatic organisms 1</td> <td>0.174 - 0.311 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])</td> </tr> <tr> <td colspan="2">Iron (7439-89-6)</td> </tr> <tr> <td>LC50 fishes 1</td> <td>0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])</td> </tr> <tr> <td colspan="2">Copper (7440-50-8)</td> </tr> <tr> <td>LC50 fishes 1</td> <td>0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)</td> </tr> <tr> <td>EC50 Daphnia 1</td> <td>0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</td> </tr> <tr> <td>EC50 other aquatic organisms 1</td> <td>0.0426 - 0.0535 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])</td> </tr> <tr> <td>LC50 fish 2</td> <td>< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td> </tr> <tr> <td>EC50 other aquatic organisms 2</td> <td>0.031 - 0.054 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])</td> </tr> </table>	ECOLOGICAL INFORMATION		Ecology-General: Very toxic to aquatic life		Nickel (7440-02-0)		LC50 fishes 1	> 100 mg/l (Exposure time: 96h-Species : Brachdanio rerio)	EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)	EC50 other aquatic organisms 1	0.18 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)	LC50 fishes 1	1.3 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])	EC50 Daphnia 1	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	EC50 other aquatic organisms 1	0.174 - 0.311 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])	Iron (7439-89-6)		LC50 fishes 1	0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])	Copper (7440-50-8)		LC50 fishes 1	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 - 0.0535 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])	LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	EC50 other aquatic organisms 2	0.031 - 0.054 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])
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EC50 Daphnia 1	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])																																		
EC50 other aquatic organisms 1	0.174 - 0.311 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])																																		
Iron (7439-89-6)																																			
LC50 fishes 1	0.56 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])																																		
Copper (7440-50-8)																																			
LC50 fishes 1	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 - 0.0535 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])																																		
LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])																																		
EC50 other aquatic organisms 2	0.031 - 0.054 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])																																		
12.2 Persistence and degradability:	No additional information available.																																		
12.3 Bio accumulative potential:	No additional information available.																																		
12.4 Mobility in soil:	No additional information available.																																		
12.5 Other adverse effects:	No additional information available.																																		

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SECTION 13:	DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods:	Waste disposal recommendations: Prevent waste from contaminating surrounding environment. Discard any product residue, disposable container or liner in environmentally acceptable manner and in full compliance with Local/ Regional/ State/ National/ International/ Federal regulations. Use recycling procedures if available.

SECTION 14:	TRANSPORT INFORMATION
In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA	
14.1 UN number:	No international regulations or restrictions are applicable. Not a hazardous material for shipping. Not a dangerous good in sense of transport regulations.
14.2 UN proper shipping name:	Not applicable

SECTION 15:	REGULATORY INFORMATION
15.1 US Federal Regulations:	
Nickel (7440-02-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 - Emission Reporting	0.1 %
Iron (7439-89-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Chromium (7440-47-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 - Emission Reporting	1.0 %
Copper (7440-50-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 - Emission Reporting	0.1 %
Manganese (7439-96-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	



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Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting	1.0 %
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Molybdenum (7439-98-7)

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

Silicon (7440-21-3)

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

Niobium (7440-03-1)

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

15.2 US State Regulations:

Nickel (7440-02-0)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
YES				

Nickel (7440-02-0)

U.S. - Massachusetts - Right To Know List
 U.S. - Minnesota - Hazardous Substance List
 U.S. - New Jersey - Right to Know Hazardous Substance List
 U.S. - Pennsylvania - RTK (Right to Know) List


Chromium (7440-47-3)

U.S. - Massachusetts - Right To Know List
 U.S. - Minnesota - Hazardous Substance List
 U.S. - New Jersey - Right to Know Hazardous Substance List
 U.S. - Pennsylvania - RTK (Right to Know) List

Copper (7440-50-8)

U.S. - Massachusetts - Right To Know List
 U.S. - Minnesota - Hazardous Substance List
 U.S. - New Jersey - Right to Know Hazardous Substance List
 U.S. - Pennsylvania - RTK (Right to Know) List

Manganese (7439-96-5)

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U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Molybdenum (7439-98-7)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Silicon (7440-21-3)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

WARNING: This product can expose you to chemicals, including hexavalent chromium, which are known to the state of California to cause cancer, and to carbon monoxide, which is known to the state of California to cause birth defects or other reproductive harm. For more information, go to www.P65WARNINGS.ca.gov.

For 4000, 5000 WARNING: This product can expose you to chemicals, including nickel, which are known to the state of California to cause cancer, and to carbon monoxide, which is known to the state of California to cause birth defects or other reproductive harm. For more information go to www.P65WARNINGS.ca.gov.

15.3 Authorization: The substances are not listed for authorization.

15.4 Restriction in use: Not applicable.

15.5 Other EU regulations: ROHS2002/95/EC,1907/2006/EC
EU Directive 67/548/EC directive on dangerous substances
EU Directive 2002/95/,EC 2002/95/EC on restriction on use of hazardous substances in automotive, electrical and electronic equipment.
Chemical safety assessment: Not applicable
Read & understand the manufacturer's instructions
Ask for your employer's safety practices which should be based on manufacturer's hazard data available to him.
Take precautions when welding and protect yourself and others.

SECTION 16:

OTHER INFORMATION

Other information:
The information contained herein is to the best of our knowledge and belief and is current as of the date of this Safety Data Sheet (SDS). As the condition or methods of use are beyond control of Venus Wire Industries Private Limited (VWIPL), hence VWIPL does not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate, but all statements or suggestions are made without any



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warranty, expressed or implied, regarding the accuracy of the information, the hazard connected with the use of this material or the results to be obtained for use thereof. It is the user's obligation to determine the conditions of safe use of these products.

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 1B	Carcinogenicity, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard:	1 -Exposure could cause irritation but only minor residual injury even if no treatment is given.	
NFPA fire hazard:	0 -Materials that will not burn	
NFPA reactivity:	0 -Normally stable, even under fire exposure conditions, are not reactive with water.	

HMIS III Rating:	
Health :	2 -Moderate hazard-Temporary or minor injury may occur
Flammability:	0 -Minimal hazard
Physical:	0 -Minimal hazard

Revised to format of ANSI Standard Z400.1/Z129-1-2010.The Hazard rating recommended for the grades covered by this SDS.