Tubing



	SAFETY DATA SHEET								
SECTION 1 ◆ IDENTIFICATION									
Webco Industries, Inc. 9101 W 21 st Street Sand Springs, OK. 74063		FOR EMERGENCY SOURCE INFORMATION CONTACT: ◆ Phone: (918) 241-1000							
GHS PRODUCT IDENTIFIERS: Stainless Steel Tubing	CHEMICAL FAMIL	Y: Metals	PRODUCT USES: Used as a base production many stainless steel tubin applications						
SECT	ION 2 * HAZA	RDS IDENTI	FICATION						
However, individual customer process	ses (particularly invo ning may result in the	olving high tem	perature), such as welding, sawing, brazing mes, dust (combustible or otherwise), and/o						
	GHS CLASSIFICATIONS								
Carcinogenicity - Category 1B	Reproductive Toxic		STOT Repeated Exposure - 1						
Eye Irritation – 2B	Acute Toxicity – O		Skin Sensitization – 1						
	STAINLESS S	LELEMENTS	NC.						
CHS Did	CTOGRAMS	TEEL TOBII	SIGNAL WORD						
		DANGER							
		TATEMENTS							
Dust/fumes Suspected of causing cancer via inhalation.	Dust/fumes su damaging fertility child	or the unborn central nervous system through prolonge							
Dust/particulates may cause ey	e irritation.	Inhalation of dust/fumes may cause respiratory irritation.							
Harmful if swallowed			nes may cause an allergic skin reaction.						
		RY STATEMENTS	S						
	Prev	ention							
Do not eat, drink or smoke when using this product.		ace protection. Avoid breathing dusts/fur							
Do not handle until all safety precauti and understood.		Wear protective gloves / protective clothing / eye							
70 11 77 1 11 1		ponse							
If on skin: Wash with plenty of water. occurs: Get medical attention. Tal contaminated clothing befo	ke off and wash	If swallowed: Call a poison center or physician if you feel unwell. Rinse mouth.							
If in eyes: Rinse cautiously with w minutes.	vater for several	Remove contact lenses, if present and easy to do. Continue Rinsing. If eye irritation persists: Get medical attention.							
If inhaled: Remove person to free comfortable for breath	ing.	•	d, concerned or feel unwell: Get medical advice/attention.						
Dispose of content-/		/Disposal	stamational manufations						
Dispose of contents/container in accord		ional/national/in NFORMATION	nemational regulations.						
Webco Industries, Inc.	P.O. Bo		Sand Springs, OK. 74063						

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SECTION 3 ▼ COMPOSITION/INFORMATION OF INGREDIENTS							
Ingredient	CAS Number	PERCENTAGE (%)					
Iron	1309-37-1	Balance					
Nickel	7440-02-0	0-6.5 (Can be as high as 80% in nickel-based alloys)					
Cobalt** (Nickel Alloys)	7440-48-4	0-21 (Nickel Alloys)					
Chromium	7440-47-3	10-30					
Molybdenum	7439-98-7	0-7.0					
Copper	7440-50-8	0-4.0					
Aluminum	7429-90-5	0-4.0					
Manganese	7439-96-5	0-10					
Tungsten	7440-33-7	0-2.5					
Titanium	7440-32-6	0-2.4					
Vanadium	7440-62-2	0-1.1					
Columbium	7440-03-1	0-1.0					
Tantalum	7440-25-7	0-1.0					
Silicon	7440-21-3	0.00-0.50					

- ◆ All concentrations are in percent by weight. Percentages are expressed as typical ranges or maximum concentrations of trace elements for the purpose of communicating the potential hazards of the finished product.
- ◆ Commercial steel products contain small amounts of various elements in addition to those specified. These small quantities frequently referred to as "trace" or "residual" elements, generally originate in the raw materials used and/or are alloying metals. Individual trace elements vary in concentration by weight, and may additionally include: boron, calcium, columbium (niobium), molybdenum, sulfur, titanium, and vanadium.
- ◆ Product surfaces are treated with chemicals which are inherent to the manufacturing process. For the Webco-04 product the following products are used in the production process: Syntilo™ 9918. Refer to the manufacturer's SDS for hazards associated with these products.
- ♦ Steel products as provided contain chromium metal in the zero-valence state. As such, chromium metal does not present any unusual health hazard. Hence, the most applicable exposure limits relative to chromium in these products are those established for the metal, itself. However, welding, torch cutting, brazing or perhaps grinding of the chromium metal in steel products may generate airborne concentrations of hexavalent chromium, (CrVI), a confirmed human carcinogen. Therefore, should the user perform any of these tasks, the hexavalent chromium exposure limits would apply.

SECTION 4 + FIRST AID MEASURES

EYES: For contact with dusts, fumes or particulate, flush eyes with water for 15 minutes. Eye injuries from solid particles should be treated by a physician immediately.

SKIN: Not anticipated to pose a significant skin hazard. For skin contact with dusts or powders, wash immediately with soap and water. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.

INGESTION: This product is not considered to be an ingestion hazard, however if excessive amounts of dust or particulates are swallowed, treat symptomatically and supportively. IF SWALLOWED: Call a poison center or Doctor/physician if you feel unwell. Rinse mouth.

INHALATION: Remove from excessive exposure levels. If large amounts of dusts, fumes, or particulate are generated, move person to fresh air. If symptoms develop, seek medical attention.

NOTE TO PHYSICIAN: Inhalation of metal fume or metal oxides may produce an acute febrile state, with cough, chills, weakness, and general malaise, nausea, vomiting, muscle cramps, and remarkable leukocytosis. Treatment is symptomatic, and condition is self-limited in 24-48 hours. Chronic exposure to dusts may result in pneumoconiosis of mixed type.

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SECTION 5 # FIRE-FIGHTING MEASURES

SEE SECTION 9 FOR FLAMMABILITY PROPERTIES

NONFLAMMABLE Steel products do not present fire or explosion hazards under normal conditions.

SUITABLE EXTINGUISHING MEDIA: For mineral oil coating: carbon dioxide, foam, dry chemical

For molten metal: use dry powder or sand. For steel dust use dry sand, water, foam, argon or nitrogen

HAZARDOUS REACTIONS/DECOMPOSITION: Steel products do not present fire or explosion hazards under normal conditions. Any non-oxidized fine metal particles/dust generated by grinding, sawing, abrasive blasting, or individual customer processes may produce materials that the customer should test for combustibility and other hazards in accordance with applicable regulations. High concentrations of combustible metallic fines in the air may present an explosion hazard. Temperatures above the melting point may liberate fumes of chromium (hexavalent chromium), iron and nickel, etc.

SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS: Steel products in the solid state present no fire or explosion hazards. Do not use water on molten metal. Do not use carbon dioxide.

nazuras. Do not use water on motion metal. Do not use carbon aromae.						
	SECTION 6 * ACCIDENTAL RELEASE MEASURES					
PERSONAL PRECAUTIONS	Emergency response is unlikely unless in the form of combustible dust. Avoid inhalation, eye, or skin contact of dusts by using appropriate precautions outlined in this SDS (see Section 8). Fine turnings and small chips should be swept or vacuumed and placed into appropriate disposable containers. Keep fine dust or powder away from sources of ignition. Scrap should be reclaimed for recycling. Prevent materials from entering drains, swearers, or waterways.					
ENVIRONMENTAL	Some grades of steel may contain reportable quantities of alloying elements. See Section 15 for					
PRECAUTIONS	additional information					
METHODS FOR	Emergency response is unlikely unless in the form of combustible dust.					
CLEANING UP	Emergency response is difficely diffess in the form of compastion dass.					
OTHER	Some customer processes may generate combustible dust that may require specific precautions					
INFORMATION	when cleaning spills or releases of dust.					
SECTION 7 💥 HANDLING AND STORAGE						
Prior to worki	ng with this product workers should be trained on its proper handling, use and storage					
PRECAUTIONS FOR	A None sinon					

SAFETY HANDLING	None given
STORAGE PROCEDURES	◆ Webco Industries, Inc. Disclaims any responsibility for harm to persons or property resulting from conditions arising from storage or handling of this material or article by individuals beyond the control of Webco Industries, Inc., or resulting from use of the material or article in a manner inconsistent with its normal commercial use.

INCOMPATIBILITIES | **♦** None given

SECTION 8 # EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS ACGIH TLV (2022) **OSHA PEL Chemical Name** NIOSH IDLH TWA: 5 mg/M³ Iron (Oxide fume) TWA: 10 mg/M^3 $2,500 \text{ mg/M}^3$ TWA: 1.5 mg/M³ TWA: 1 mg/M³ 10 mg/M^3 Nickel Cobalt TWA: 0.02 mg/M³ 0.1 mg/M^3 20 mg/M^3 Chromium TWA: 0.5 mg/M³ TWA: 1 mg/M^3 250 mg/M^3 Molybdenum TWA: 10 mg/M³ TWA: 15 mg/M³ $5,000 \text{ mg/M}^3$ Copper (fume) TWA: 0.2 mg/M^3 TWA: 0.1 mg/M^3 100 mg/M^3 Aluminum TWA: 1 mg/M^3 TWA: 5 mg/M³ -----TWA: 5 mg/M³ TWA: 0.1 mg/M³ 500 mg/M^3 Manganese (Ceiling limit) TWA: 5 mg/M³ TWA: 3 mg/M^3 Tungsten TWA: 2.5 mg/M³ TWA: 15 mg/M³ $5,000 \text{ mg/M}^3$ Titanium (dioxide)



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Chemical Name	ACGIH TLV (2022)	OSHA PEL	NIOSH IDLH	
Vanadium (Pentoxide fume)	TWA: 0.05 mg/M ³	TWA: 0.1 mg/M ³ (Ceiling limit)	35 mg/M ³	
Columbium				
Tantalum		TWA: 5 mg/M^3	$2,500 \text{ mg/M}^3$	
Silicon	TWA: 3 mg/M ³ (respirable fraction)	TWA: 5 mg/M ³ (respirable fraction)	None Determined	

ENGINEERING CONTROLS: Use adequate ventilation to keep dust/fume concentrations of this product below occupational exposure limits particularly in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

- **◆** EYES: Safety glasses or goggles as needed for welding, burning, grinding or machine operations (ANSI Z87.1 approved).
- ◆ SKIN/BODY: Chemical protective clothing is recommended based on a thorough PPE hazard assessment. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for specific information.
- ♦ HAND/CLOTHING PROTECTION: Protective Gloves: Should be worn as required for welding, burning or handling operations. Clothing: Flame/heat protective garments required for safe burning, welding, or grinding.
- ♦ RESPIRATORY PROTECTION: A NIOSH approved air purifying respirator (APR) with properly selected cartridges may be permissible under certain circumstances where airborne concentrations may exceed exposure limits. Protection provided by APRs is limited, calculate the maximum use concentration for the exposure situation. Use a positive pressure atmosphere supplied (Grade D air) respirator if there is any potential for exposure levels are not known or any other circumstances where APRs may not provide adequate protection.

SECTION 9 ★ PHYSICAL AND CHEMICAL PROPERTIES								
BOILING POINT (760 MM HG): Not applicable	PERCENT VOLATILE BY VOLU	JME: Not applicable						
SPECIFIC GRAVITY (H ₂ O = 1): Not applicable VISCOSITY UNITS, TEMP: Not applicable								
EVAPORATION RATE (BuAc = 1): Not applicable	VAPOR DENSITY (AIR =1): Not applicable							
VAPOR PRESSURE AT 25 °C: Not applicable	MELTING POINT: 2500 – 2800 °F / 1430-1540 °C							
APPEARANCE AND ODOR: Gray to silver / no odor.	. AUTOIGNITION TEMPERATURE: Not applicable							
FLASH POINT: (Method Used) Not applicable	FLAMMABLE LIMITS: Not applicable							

SECTION 10 X STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures

HAZARDOUS REACTION POTENTIAL: Will not occur

CONDITIONS TO AVOID: Stable under normal conditions of use, storage & transport. Steel at temperatures above the melting point may liberate fumes containing oxides of iron, chromium (hexavalent chromium) and alloying elements. Avoid generation of airborne fume.

INCOMPATIBLE PRODUCTS AND MATERIALS TO AVOID: Not Applicable

HAZARDOUS DECOMPOSITION PRODUCTS: Combusted mineral oil may contain polynuclear aromatic hydrocarbons.

HAZARDOUS POLYMERIZATION: Not Applicable

SECTION 11 & TOXICOLOGICAL INFORMATION

METAL FUMES

When this product is welded or involved in a high temperature operation, fumes are generated. Breathing fumes or dusts of this product may result in metal fume fever, which is an illness produced by inhaling metal oxides. The signs and symptoms are generally flu-like. They include fever, chills, nausea, headache, fatigue, muscle aches, joint pains, lack of appetite, shortness of breath, pneumonia, chest pain, change in blood pressure, dizziness, and coughing. These oxides are produced by heating various metals including cadmium, zinc, magnesium, copper, antimony, nickel, cobalt, manganese, tin, lead, beryllium, silver, chromium, aluminum, selenium, iron, and arsenic. The most common agents involved are zinc and copper.

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IRON

The primary component of this product is iron. Long-term exposure to iron dusts or fumes can result in a condition called siderosis which is considered to be a benign pneumoconiosis. Symptoms may include chronic bronchitis, emphysema, and shortness of breath upon exertion. Penetration of iron particles in the skin or eye may cause an exogenous or ocular siderosis which may be characterized by a red-brown pigmentation of the affected area. Ingestion overexposures to iron may affect the gastrointestinal, nervous, and hematopoietic system and the liver.

Type of Dose Specie Result Type of Dose Specie Result Type of Dose Specie Result Type of Dose Result		Toxicity									
Rat		Specie	Result		Specie	Result		Specie	Result		
LD _{lo (oral)} Dog 30 mg/kg LD _{50(dermal)} Rabbit No Data LC _{50(inh)} State (5 minutes) No Data	LD _{lo (oral)}	Dog	30 mg/kg	LD _{50(dermal)}	Rabbit	No Data	LC _{50(inh)}	Rat (5 minutes)	No Data		

Specific organ toxicity, single exposure: No data available

Specific organ toxicity, repeated exposure: No data available

CARCINOGENICITY

IARC/NTP	Not Listed						
California (Prop 65): Not Listed		NIOSH: Not Listed	ACGIH: Not classifiable as a human	OSHA: Not			
		NIOSH: Not Listed	carcinogen	Listed			
MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS							
Respiratory or Skin sensitization: No data available			Germ cell mutagenicity: Not expected to cause effects				
Reproductive toxicity: Not expected to cause effects			Teratogenicity: No data available				
Skin Corrosion/irritation: Causes skin irritation and			Serious eye damage, irritation: may cause serious eye				
repeated exposure cau	ised dryn	ess and cracking	irritation	•			

Synergistic effects: No data available

Aspiration hazard: May be fatal if aspirated and enters airway

RTECS #: NO7400000

NICKEL

The health effects of nickel exposures include contact dermatitis in sensitized individual, eye irritation, asthma, pulmonary fibrosis, and edema.

	TOXICITY							
Type of Dose	Specie	Result	Type of Dose	Specie	Result	Type of Dose	Specie	Result
LD _{50(Intra)}	Rat	250 mg/kg	LD _{50(dermal)}	Rabbit	No Data	LC _{50(inh)}	Rat (4 hours)	No Data

Specific organ toxicity, single exposure: No data available

Specific organ toxicity, repeated exposure: No data available

CARCINOGENICITY

2B: Possibly carcinogenic to humans

ı	NIP			Listed	
	California (Prop	65): Listed	NIOSH: Listed	ACGIH: A5: Not Suspected as a Human	OSHA: Not
	as carcino	gen	NIOSII. Listed	Carcinogen	Listed

MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS

Respiratory or Skin sensitization: No data available	Germ cell mutagenicity: test performed on rats showed negative results
Reproductive toxicity: No data available	Teratogenicity: No data available
Skin Corrosion/irritation: No data available	Serious eye damage, irritation -rabbit: mild eye irritation
Synergistic effects: No data available	Aspiration hazard: No data available
DTECS #: OD5050000	

RTECS #: QR5950000

IARC

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RTECS #: GB4200000



					BALT					
Cobalt has cau also been cause by other human	ed by cobalt.									
by other mama	ii stadies.			To	xicity					
Type of Dose	Specie Result Type of Dose Species Result I Desocrate Rah		Ĭ	Result	Type of Dose	Specie	Result			
LD _{50(Intra)}	Rat	6,171 mg/kg	LD _{50(dermal)}	al) Rabbi		No Data	LC _{50(inh)}	Rat (4 hours)	No Data	
Specific organ available	toxicity, sing	gle exposure	: No data		_	cific organ tox lable	icity, repeated	l exposure:	No data	
			CA	RCIN	OGENI	CITY				
IARC			2 <i>A</i>	: Pro	bably o	carcinogenic to	humans			
NTP		<u> </u>			1	Listed			_	
California (Prop 65): Listed NIOSH: Not Listed					carcinogen with unknown relevance to			OSHA: Not Listed		
	N	IUTAGENICI	TY, TERATO	GENIC	ITY A	ND REPRODUC	CTIVE EFFEC	TS		
Respiratory or	Skin sensitiz	zation: No da	ıta available		Germ cell mutagenicity: No data available					
Reproductive toxicity: No data available						Teratogenicity: No data available				
Skin Corrosion			able		Serious eye damage, irritation: No data available					
Synergistic eff		available			Aspiration hazard: No data available					
RTECS #: Nor	ne									
					<i>OMIU</i>					
Acute effects of	of exposure to	o chromium	include irritat				umonia.			
			1	To	XICITY	,				
Type of Dose	Specie	Result	Type of Dose	Sp	ecie	Result	Type of Dose	Specie	Result	
LD _{50(oral)}	Rat	27.5 mg/kg	LD _{50(dermal)}	Ra	bbit	No Data	LC _{50(inh)}	Rat (4 hours)	No Data	
Specific organ respiratory irri	•	gle exposure	: May cause		Specific organ toxicity, repeated exposure: No data available					
					OGENI					
IARC			Group 3: Not	classi		as to its carcin	ogenicity to h	umans		
NTP					N	Not Listed				
California (Prop 65): Not Listed NIOSH: Not Listed					ACGIH: Not Listed OSHA: Not Listed					
				GENIC		ND REPRODUC				
Respiratory or sensitization	Skin sensitiz	zation: Testir	ng showed no		Germ cell mutagenicity: test performed on rats showed negative results					
Reproductive t	oxicity: No	data available	e		Terato	genicity: No d	lata available			
Reproductive toxicity: No data available					Serious eye damage, irritation-Testing showed no irritation					
Skin Corrosion	i/irritation: 1	esting snow	Synergistic effects: No data available						4 110 11111111111	



	MOLYBDENUM									
•	Exposure to Molybdenum can cause headache, fatigue, loss of appetite, and muscle and joint pain. Repeated exposure may raise the Uric Acid level in the body, which may lead to gout. Molybdenum may damage the liver and kidneys.									
				Toxi		•			Ť	
Type of Dose	Specie	Result	Type of Dose	Speci	le	Result	Type of Dose	Specie	Res	ult
LD _{50(oral)}	Mouse	> 5,000 mg/kg	LD _{50(dermal)}	Rabb		No Data	LC _{50(inh)}	Rat (4 hours)	No I) ata
Specific organ toxicity, single exposure: No data available Specific organ toxicity, repeated exposure: No data available						No data				
			CA	RCINO						
IARC/NTP	(F) N	,			Not	t Listed			OCITA	NT 4
California (P Lis	ted	NIUS	SH: Not Liste				Not Listed		OSHA: I	
D			TY, TERATOG	ENICI						
Respiratory or Reproductive t							icity: No data			
Skin Corrosion							data available, irritation: 1		ilahle	
Synergistic eff			oic				ard: No data a		паоте	
RTECS #: QA		uvunuore			11.	spiration naz		· · uiiuoio		
				Сор	PER					
Copper can can	use alteration	s in taste. It	can also be an			mucous mei	mbranes.			
* *				Toxi						
Type of Dose	Specie	Result	Type of Dose	Sp	ecie	Result	Type of Dose	Specie	Res	sult
LD _{50(oral)}	Mouse	413 mg/kg	LD _{50(dermal)}	Ra	bbit	No Data	LC _{50(inh)}	Rat (4 hours	No l	Data
Specific organ available	toxicity, sing	gle exposure:	No data		Specifi availab	•	city, repeated	exposure:	No data	
			CA	RCINO						
IARC/NTP					No	t Listed				
California (I Li	sted	NIO	SH: Not List		ACGIH: Not Listed List				OSHA: Liste	
Descri			TY, TERATOG							
Respiratory or					Germ cell mutagenicity: No data available Teratogenicity: No data available					
Reproductive to Skin Corrosion							e, irritation: N		lable	
			OIC .						iauic	
Synergistic effects: No data available RTECS #: GL5325000 Aspiration hazard: No data available										
ALUMINUM										
Exposure to aluminum can cause "metal fume fever." This is a flu-like illness with symptoms of metallic taste in the mouth, headache, fever and chills, aches, chest tightness and cough. The symptoms may be delayed for several hours after exposure and usually last for a day or two.										
TOXICITY										
Type of Dose	Specie	Result	Type of Dose	Sp	ecie	Result	Type of Dose	Specie	Res	sult
LD _{50(Intra)}	Rat	No Data	LD _{50(dermal)}	Ra	bbit	No Data	LC _{50(inh)}	Rat (4 hours	No l	Data

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Specific organ toxicity, single exposure: No data available				Specific organ toxicity, repeated exposure: No data available					
			CA	RCI	NOGENIC	CITY			
IARC/NTP Not Listed									
California (Prop 65): Not Listed NIOSH: Not Listed			A	CGIH: A4: I Human	Not Classifial Carcinogen	ole as a	OSHA: Not Listed		
MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS									
Respiratory or						cell mutager			
Reproductive						ogenicity: No			
Skin Corrosion	n/irritation: N	lo data availa	able			us eye damag			ilable
Synergistic eff	fects: No data	a available			Aspir	ation hazard:	No data avai	lable	
RTECS #: BD	0330000								
				MA	NGANES	E			
Acute effects results in cen	-	_		e irri	itation, 1	lung damage	e, and pneu	monia. Ch	ronic exposure
				To	OXICITY				
Type of Dose	Specie	Result	Type of Dose	S	pecie	Result	Type of Dose	Specie	Result
LD _{50(oral)}	Rat	9 gm/kg	LD _{50(dermal)}	R	abbit	No Data	LC _{50(inh)}	Rat (4 hours)	No Data
Specific organ available	toxicity, sin	gle exposure	: No data		Specifi	c organ toxic	ity, repeated	exposure: N	o data available
			CA	RCI	NOGENIC	CITY			
IARC/NTP						ot Listed			
California (Prop 65): Not Listed NIOSH: Not Listed				ACGIH: A4: Not Classifiable as a Human Carcinogen Cisted					
	N	IUTAGENICI	TY, TERATO	GENI					
Respiratory or	Skin sensitiz	zation: No da	ıta available			cell mutagenio e results	city: test perf	ormed on rat	ts showed
Reproductive					Teratogenicity: No data available Serious eye damage, irritation -rabbit: mild eye irritation				
Skin Corrosion			able						e irritation
Synergistic eff		a available			Aspirat	tion hazard: N	lo data availa	ıble	
RTECS #: OC	09275000								
					TANIUM				
Titanium dus with skin or e		•	_	d pai	n in che	est, coughing	, and difficu	ılty in breat	hing. Contact
	_			To	OXICITY				_
Type of Dose	Specie	Result	Type of Dose	S_{J}	pecie	Result	Type of Dose	Specie	Result
TD _{50(oral)}	Rabbit	No Data	LD _{50(dermal)}	R	abbit	No Data	LC _{50(inh)}	Rat (4 hours)	No Data
Specific organ toxicity, single exposure: No data available Specific organ toxicity, repeated exposure: No data available						o data available			
	ı		CA	RCI	NOGENIC				
IARC/NTP		ı				ot Listed			
California (Prop 65): Not Listed NIOSH: Not Listed				CGIH: A3 - Conogen with ur human			OSHA: Not Listed		
	N	I UTAGENICI	TY, TERATO	GENI	CITY AN	D REPRODU	CTIVE EFFEC	CTS	

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Respiratory or Skin sensitization: No data available					Germ cell mutagenicity: No data available				
Reproductive toxicity: No data available				Terat	ogenicity: No	data available	;		
Skin Corrosion/irritation: No data available					Serious eye damage, irritation: No data available				
Synergistic effects: No data available			Aspi	Aspiration hazard: No data available					
RTECS #: XI	R1700000								
			HEXA	VALENT C	HROMIUM				
High temperature operations on stainless steel are a common source of hexavalent chromium generation. Hexavalent chromium can irritate the nose, throat, and lungs. Repeated or prolonged exposure can damage the mucous membranes of the nasal passages and result in ulcers. In severe cases, exposure causes perforation of the septum (the wall separating the nasal passages). Some employees become allergic to hexavalent chromium so that inhaling the chromate compounds can cause asthma symptoms such as wheezing and shortness of breath. Hexavalent chromium is carcinogenic to workers.									
	T	1		TOXICIT	Y	T	T	1	
Type of Dose	Specie	Result	Type of Dose	Specie	Result	Type of Dose	Specie	Result	
$LD_{50 (oral)} \\$	Rat	No Data	LD _{50(dermal)}	Rabbit	No Data	LC _{50(inh)}	Rat (1 hour)	No Data	
Specific organ available	n toxicity, si	ngle exposure	: No data	Spec	ific organ toxic	eity, repeated	exposure: N	o data available	
				RCINOGEN					
IARC			(Group 1: ca	arcinogenic to l	numans			
NTP					Listed				
California (Prop 65): Listed NIOSH: Listed			1	ACGIH: A1 - Confirmed human carcinogen OSHA: Liste 29 CFR 1910.1026					
			•		AND REPRODU				
Respiratory or					n cell mutageni				
Reproductive	•				ogenicity: No				
Skin Corrosion/irritation: No data available					us eye damage			ble	
Synergistic ef		ta available		Aspi	ration hazard: N	No data availa	ıble		
RTECS #: GB6262000									
SECTION 12 * ECOLOGICAL INFORMATION No Data Available for this product as sold/shipped. However, individual components of the product when processed have									
No Data Avai been found to					dividual compo	onents of the p	product when	n processed have	
				IRON					
	1			TOXICIT		1			
Type of Do	ose	Specie	Result		ype of Dose	Speci	e	Result	
LC ₅₀		triped bass	13.6 mg/l 96 hour		EC ₅₀			No Data	
Persistence a	nd Degrada	ability/ Bioaco	cumulative P		obility in Soil:	Not applicab	ole or no data	l	
COPPER									
TOXICITY									
Type of Do		Specie	Result		ype of Dose	Speci		Result	
LC ₅₀		nead Minnow 96 hours	0.0068-0.01 mg/L		EC ₅₀	Water F 48 hou	ırs	0.03 mg/L	
Persistence a	nd Degrada	ability/ Bioaco			obility in Soil:	Not applicab	ole or no data	l	
	MANGANESE								
m a=	1	g :	. .	TOXICIT			1		
Type of Do	ose	Specie	Result		ype of Dose	Speci	e	Result	

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LC_{50}	Rainbow Trout 96 hours	> 3.6 mg/L	EC ₅₀		No Data
Persistence and De	egradability/ Bioacc	umulative Poten	tial/Mobility in Soil:	Not applicable or no	data
			ICKEL		
		To	XICITY		
Type of Dose	Specie	Result	Type of Dose	Specie	Result
LC_{50}	Rainbow Trout 96 hour	15.3 mg/L	EC ₅₀	Water Flea 48 hours	0.074 mg/l
Persistence and De	egradability/ Bioacc	umulative Poten	tial/Mobility in Soil:	Not applicable or no	data
		Сн	ROMIUM		
		To	OXICITY		
Type of Dose	Specie	Result	Type of Dose	Specie	Result
LC_{50}	Carp 96 hours	14.3 mg/L	EC ₅₀	Water Flea 48 hours	0.07 mg/l
Persistence and De	egradability/ Bioacc	umulative Poten	tial/Mobility in Soil:	Not applicable or no	data
Not applicable or no	o data				
		C	OBALT		
		To	OXICITY		
Type of Dose	Specie	Result	Type of Dose	Specie	Result
LC ₅₀	Zebra Fish 96 hours	100 mg/L	EC ₅₀	Water Flea 48 hours	> 100 mg/l
Persistence and De	egradability/ Bioacc	umulative Poten	tial/Mobility in Soil:	Not applicable or no	data
		MoL	YBDENUM		
		To	OXICITY		
Type of Dose	Specie	Result	Type of Dose	Specie	Result
LC ₅₀	Rainbow Trout 96 hour	644 mg/L	EC ₅₀		No Data
Persistence and De	egradability/ Bioacc	umulative Poten	tial/Mobility in Soil:	Not applicable or no	data
		AL	UMINUM		
		To	OXICITY		
Type of Dose	Specie	Result	Type of Dose	Specie	Result
LC ₅₀		No Data	EC ₅₀		No Data
Persistence and De	egradability/ Bioacc	umulative Poten	tial/Mobility in Soil:	Not applicable or no	data
		Ti	ΓΑΝΙUΜ		
		To	XICITY		
Type of Dose	Specie	Result	Type of Dose	Specie	Result
LC ₅₀		No Data	EC ₅₀		No Data
Persistence and De	egradability/ Bioacc	umulative Poten	tial/Mobility in Soil:	Not applicable or no	data
	·		OSAL CONSIDER	* *	
Not Meant To Re A			Federal Laws And Re		
			se of in a landfill in ac		cal, state, and fede
regulations.	OFOTION A	A III TOANO		ODMATION	
	SECTION 1	4 IKANS	PORTATION INF	UKMATIUN	

Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations: Not Regulated



SECTION 15) REGULATORY INFORMATION							
Agency	Listing: Guidance only, consult specific regulations						
OSHA: This product is not haza	ardous under the crit	eria of the Federal OSI	HA Hazard Communicat	tion Standard 29 CFR			
1910.1200. However, dusts and	fumes from this pro	duct may be combustil	ole or hazardous and req	uire protection to			
comply with applicable Federal	, state and local laws	s and regulations.					
		Steel is not reportable, however, it contains hazardous substances that may be reportable if released in pieces with diameters less than or equal to 0.004 inches (RQ marked with					
CERCLA RQ's	an "*").						
	Chromium	5000 pounds *	Copper	5000 pounds *			
	Nickel	100 pounds *					
EDCD A 212 (De minimis)	Nickel, Cobalt, Ca	admium: 0.1%					
EPCRA 313 (De minimis)	Copper, Molybder	num, Vanadium, Alum	inum, Manganese, Chro	omium: 1%			
CAA 112(r) TQ	None Listed		-				
Section 304 EHS RQ		No	ne Listed				
Section 302 (EHS) TPQ		None Listed					
RCRA Code	Chromium-D007						
TSCA: Components of this pro-	duct are listed on the	e TSCA Inventory					
SARA (40 CFR Part 355) TPQ							
SARA 302/304/311/312 extrem			lanning: None of the ing	gredients are listed			
			Nickel, Molybdenum, A				
New Jersey		um, Silicon and Tantalı		, ,			
D	Aluminum, Cobalt, Copper, Chromium, Manganese, Molybdenum, Silicon, Nickel,						
Pennsylvania	Tungsten, Tantalum and Vanadium						
Massachusetts	Aluminum, Tungsten, Cobalt, Copper, Silicon, Molybdenum, Chromium, Manganese,						
Massachusetts	Nickel and Tantalum						
California Prop. 65: This product may contain chemicals (nickel and cobalt) known to the state of California to cause							
cancer							
SARA 311/312 SDS distributio	n - chemical invento	ory:					
G1 VV 1 (GVV1) 207 G1 1 G 1 VV 1 1							

Clean Water Act (CWA) 307: Chromium, Copper and Nickel

Clean Water Act (CWA) 311 and Clean Air Act Section 602 Class I and II Substances: None listed

SECTION 16 % OTHER INFORMATION



NFPA LABEL



HMIS III LABEL

Personal Protection Index
NPCA recommends that PPE
codes be determined by the
employer, who is familiar with the
actual conditions under which
chemicals in the facility are used.

Acronym List					
°F=degrees Fahrenheit	°C=degrees Celsius	ACGIH= American Conference of Industrial Hygienists			
APR=Air Purifying Respirator	BCF= Bioconcentration Factor	BuAc=Butyl Acetate			
CAS=Chemical Abstract Service	CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act	CHEMTREC= Chemical Transportation Emergency Center			
CNS=Central Nervous System	CWA=Clean Water Act	DOT=Department of Transportation			
EC ₅₀ = Effective Concentration Fifty	EPA=Environmental Protection Agency	g/Kg=Grams per Kilogram			
g/M³=Grams per Cubic Meter	GHS=Global Harmonization System	H ₂ O=Water			

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SDS # Webco-04

DATE: <u>11/11/22</u>

Acronym List						
HAP=Hazardous Air Pollutants	HMIS= Hazardous Materials	IARC= International Agency for				
	Identification System	Research on Cancer				
LC ₅₀ =Lethal Concentration Fifty	LD ₅₀ =Lethal Dose Fifty	LEL=Lower Explosive Limit				
Log P _{ow} =Octanol/water partition coefficient	mg/Kg=Milligrams per Kilogram	mg/L=Milligrams per Liter				
mL/Kg=Milliliters per Kilogram	mm HG=millimeters of mercury	N.O.S=Not Otherwise Specified				
NFPA=National Fire Protection	NIOSH= National Institute for	NTD Netional Taxinal and December				
Association	Occupational Safety and Health	NTP=National Toxicology Program				
OSHA=Occupational Safety and Health Administration	PEL=Permissible Exposure Limit	ppm=Parts per Million				
RCRA=Resource Conservation and	DO Describle Occupition	RTECS=Registry of Toxic Effects of				
Recovery Act	RQ=Reportable Quantities	Chemical Substances				
SARA= Superfund Amendments and	CDC Cofete Data Chapt	CTEL Chart Tame East and Limit				
Reauthorization Act	SDS=Safety Data Sheet	STEL=Short Term Exposure Limit				
STOT=Single Target Organ Toxicity	TLV=Threshold Limit Value	TPQ=Threshold Planning Quantity				
TSCA=Toxic Substance and Control Act	TWA=Time Weighted Average	UEL=Upper Explosive Limit				
SDS REVISIONS: Reviewed and updated all Sections						

REVISION #1: 11/11/22 SDS CREATION DATE: 06/16/15

DISCLAIMER

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SDS DEVELOPER: Case William

Cass Willard, CIH