COR-MET.

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards

SDS Revision: 3.3

		1	PRODUC											
1.1	Product Name:													
			OY WELDIN	IG WIRE, C	OR-FO	RGE	WEL	DING	WIRI	E, CC	JR-TO	DOL	WELL	
1.2	Chemical Name:	Tool Steel												
1.3 1.4	Synonyms:		, XF FC-G, FC-S						<u></u>	D O O	44 07			0050 00450
1.4	Trade Names:	DG5873R, [35, 4140, 4340 DG63R, DG65R F58, F580, F58	, E8016-B2, E	E80T5-B6	, E80T5	5-B8,	EH14,	F15, F	25(XF	[;]), F35	(XF),	F40, F4	5, F46, F4601,
1.5	Product Use:	Welding Wir	е											
1.6	Distributor's Name:	Cor-Met®, Ir	ıc.											
1.7	Distributor's Address:	12500 Grano	d River Road, B	righton, MI 48 ²	116									
1.8	Emergency Phone:	COR-MET	Г: +1 (800) 8	48-2719										
1.9	Business Phone / Fax:	Tel: +1 (810)) 227-3251 // Fa	x: +1 (810) 22	7-9266									
			2 H	AZARDS		TIFIC	ΔΤΙ	ON						
2.1	Hazard Identification:	Prepared in	accordance wit						nded to	com	olv with	n OSF	IA 29 C	FR 1910 1200
		Canadian W DANGER! REPEATED	MAY CAUSE C EXPOSURE. (n: Carc. 1A; ST(alian Work He ANCER. MA CAUSES SER	alth and S Y CAUS IOUS EY	Safety s E DAM/ E IRRIT	tanda AGE 1 ATIOI	rds. O OR (GANS	(LUN	GS) TH	IROU	GH PR	OLONGED OR
2.2	Label Elements: Other Warnings:	Hazard State – May cause repeated exp <u>Precautional</u> not breathe thoroughly a Use only o clothing/eye and keep co for several m exposed or P337+P317 of contents a WARNING : circuits that energy into continuous v one or more may cause b light radiatio and gases g damage hea published by WAR	ements (H): H3 e respiratory irrit	50 – May cau ation. H372 – P): P203 – Ob 34 – Wash hau P270 – Do no a well-ventila protection. P eathing. P305 a contact lense at medical act n persists: Get a licensed treat from welding ng arc between icentrated heat ctrode (or fille . Hot metal sp ds and body o ic arc may cau the welding p o American N Velding Societ oduct can exp re known to	se cance Causes of tain, reac nds and e t eat, drir ted area '304+P34 +P351+F ss, if pres dvice. P3 medical l atment, si equipment en the ele t source. r metal, v atter and r may cau use dama orocess ca ational S y for addi pose you the State	r. H319 damage l and fol exposed hk or sn . P280 0 – IF 2338 – II ent and 19 – C help. P4 torage c ht or ele ectrode The tre vhen us heat fro use fire i ge to ur an be ha tandard tional sa to che e of Ca) – Ca to orç to orç low in l skin v – W NNHAL F IN E easy ' Get m to S - v r disp ectrod and t emeno- ed as com ele f it cou prote- armful Z-49 afety p micals	gans (lu structio areas w vhen us (ear pr .ED: Re .YES: F to do. C nedical Store lo <u>osal fac</u> es may he bas dously l such) ectric ar mes int cted ey to you .1, "Sa <u>precauti</u> includ	ings) the ins before with so- sing the rotective emove a continue help in bocked u collity (T y be far e plate high te to decorrow rcs, we o contate o contate ing the faty in ions an ling <u>He</u>	bre us ap an is pro- e glo perso autiou le rins if you le rins if you le rins SDF). atal. The mpera ompos lding f act wit ear su h and Weld id haz exaval	e. P26 d warn duct. ves/pro on to fr sly wit ing. P3 feel 501 – E feel weldir tures se. Ele flames h com itable p noise o cling, C ard wa ent Ch	nged c 60 – D n wate P271 otectiv resh a h wate 318 – unwel Dispos Iding arc of the portect or the bustibl portect genera utting rnings arcmiu	or or er ir er If II. er processs conver arc cau arc cau arc rated dur ated dur ated dur and Al 3. m, Nick	ts the electrica use the welding king may create il spray process ials. UV, IR and ipment. Fumes ing welding can ied Processes <u>el, Cobalt</u> , and
										• • • •				
		<u> </u>	OMPOSIT	ION & IN	GRED	IENT	INF	ORN					(3)	
						AC	GIH		EXPOS NOHSC	SURE L	IMITS IN	AIR (m OSHA		
							om		ppm			ppm		ł
								ES-	ES-	ES-				ĺ
CHEMIC	CAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	OTHER
RON		7439-89-6	NO4565500	231-096-4	81-98	(5.0)	NA	NF	NF	NF	(10.0)	NA	NA	0.5 - NIOSH
CHRON	MIUM #	7440-47-3	GB4200000	231-157-5	0-14	(0.5)	NA	(0.5)	NF	NF	(1.0)	NA	25	
TITANI	IUM DIOXIDE	13463-67-7 Carc. 2; H351	XR2275000	236-675-5	1-7.5	(10)	NA	(10)	NF	NF	(15)	NA	NA	TOTAL DUST
MOLYE	BDENUM	7439-98-7	QA4680000	231-107-2	0-9	(10.0)	NA	(10.0)	NF	NF	(15.0)	NA	(5000)	
TUNGS	STEN		YO7175000 elf-heat.2; H228, H		0-6.5	5	10	5	10	NF	5	10	NA	
CALCI	UM FLUORIDE	7789-75-5	EW1760000	232-188-7	0-5	NA	NA	NF	NF	NF	NA	NA	NA	
		Skin Irrit. 2; Eye	e Irrit. 2; STOT SE	3; H315, H319										



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								FXPO	SURF I	IMITS IN	I AIR (m	n/m ³)	
					AC	GIH	NOHSC				OSHA		
					pp	m		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
COBALT	7440-48-4	GF8750000	231-158-0	0-4.5	(0.02)	NA	(0.05)	NA	NA	(0.01)	NA	NA	DUST
COBALI	Skin Sens. 1, F	Resp. Sens. 1, Aqu	atic Chronic 4; H	317, H334,	H413								
NICKEL	7440-02-0	QR5950000	231-111-4	0-3.5	(5.0)	NA	NF	NF	NF	(5.0)	NA	NA	
NICKEL	Carc. 2; STOT	RE 1; Skin Sens. 1	; Aquatic Chroni	<u>c 3; H351,</u>	H372**,	H317,	H412		-	-			
MANGANESE	7439-96-5	OO9275000	231-105-1	0-3	(0.2)	(3)	(10.0)	NF	NF	(10.0)	NA	NA	
MANGANESE								-		-			
SILICON	7440-21-3	VW0400000	231-130-8	0.1-1	(10.0)	NA	(10.0)	NF	NF	(10.0)	NA	NA	
SILICON									-	-			
ALUMINUM OXIDE	11092-32-3	NA	215-691-6	0-2	NA	NA	NF	NF	NF	NA	NA	NA	
					-	-							
IRON OXIDE	1332-37-2	NO7380000	215-570-8	0-2	15	NA	NF	NF	NF	10	NA	NA	FUME
				-									
SILICON DIOXIDE	7631-86-9	VV7310000	231-545-4	0-2	NA	NA	NF	NF	NF	20	NA	3000	
	Eye Irrit. 2A; S	TOT SE 3; H319, H	1335	-									
POTASSIUM TITANATE	12030-97-6	NA	234-748-6	0-2	NA	NA	NF	NF	NF	NA	NA	NA	
						-			-	-			
ZIRCONIUM OXIDE	1314-23-4		215-227-2	0-2	(5)	NA	(5)	NF	NF	(5)	NA	NA	
		/e Irrit. 2A; STOT S	E 3; H315, H319	, H335									
	1314-62-1	YW2460000	215-239-8	0-2	NA	NA	(0.05)	NF	NF	NA	NA	35	
ANADIUM	Muta. 2; Repr. 1 H411	Muta. 2; Repr. 2; STOT RE 1; Acute Tox. 4 *; Acute Tox. 4 *; STOT SE 3; Aquatic Chronic 2; H341, H361d ***, H372 **, H332, H302, H333											

exposure limit for weiding tume has been established at 5 mg/m3 with OSHA'S PEL and ACGIH'S TLV. The individual complex compounds within the tume may have lower exposure limits than the general welding tume PEL/TLV. An Industrial Hygienist, the OSHA Permissible Exposure Limits for Air Contaminants (29 CFR 1910.1000), and the ACGIH Threshold Limit Values should be consulted to determine the specific fume constituents present and their respective exposure limits.

4. FIRST AID MEASURES

First Aid:	<u>Eyes</u> :	Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention.
	<u>Skin</u> :	Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.
	Inhalation:	Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration.
	Ingestion:	Ingestion is unlikely; however, particulates from grinding or cutting may be ingested. DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
Effects of Exposure:	Ingestion:	Gastrointestinal irritation, nausea, and/or vomiting.
	Eyes:	Mild to moderate irritant.
	<u>Skin</u> :	Redness, irritation, rash at site of exposure. Chromium dust on skin can form ulcers.
	Inhalation:	Inhalation of chromium and chromates, in fumes, can cause a metallic taste, tightness in the chest, nausea, fever, fatigue and allergic reaction. Fumes may cause irritation to nasal membranes, bronchial tubes and lungs.
Symptoms of Overexposure:	Ingestion:	Intestinal discomfort, nausea, vomiting, and diarrhea.
	Eyes:	Mild irritation, redness, and watering.
	<u>Skin</u> :	Contact dermatitis, characterized by localized red or puffy dry skin and itching.
	Inhalation:	Acute overexposure may include signs and symptoms such as watery eyes, nose and throat irritation, headache, dizziness, metal fume fever, difficulty in breathing, frequent coughing, or chest pain.
Acute Health Effects:	Ingestion:	Gastrointestinal irritation and central nervous system depression.
	Eyes:	Mild to moderate irritant.
	<u>Skin</u> :	Prolonged or repeated contact may cause contact dermatitis (localized redness or rash).
	Inhalation:	Acute overexposure may include signs and symptoms such as watery eyes, nose and throat irritation, headache, dizziness, metal fume fever, difficulty in breathing, frequent coughing, or chest pain. Overexposure to metals oxide may cause metal fume fever characterized by metallic taste, tightness of chest and fever. Symptoms may last 24-48 hours following overexposure.
	Effects of Exposure: Symptoms of Overexposure:	Eyes: Skin: Inhalation: Ingestion: Ingestion: Effects of Exposure: Ingestion: Eyes: Skin: Inhalation: Symptoms of Overexposure: Ingestion: Eyes: Skin: Inhalation: Acute Health Effects: Ingestion: Eyes: Skin: Ingestion:



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	•	4. FIRST AID MEASURES – cont	a						
4.5	Chronic Health Effects:	Ingestion: Ingestion or inhalation of fluorides may cause serious bo	ne erosion	(osteopo	orosis) a	nd mottli	ng of teeth	h.	
		Eyes: None reported by the manufacturer.							
		Skin: Prolonged or repeated contact may cause contact derma							
		Inhalation: Long term exposure to welding and allied processes gas							
		irritation or pneumoconiosis or "siderosis." Inhalation of							
		irritation of the respiratory tract, lung damage and ast manganese compounds may affect the central nervous							
		Disease and can include slowness, changes in handwr							
		and less commonly, tremor and behavioral changes.							
		compounds should be seen by a physician for early dete					to manga		
1.6	Target Organs:	Eyes, Skin & Respiratory System.							
4.7	Medical Conditions	Individuals with allergies or impaired respiratory function may have	HEALT	Н				1	
	Aggravated by Exposure:	symptoms worsened by exposure to welding fumes; however, such			v			0	
		reaction cannot be predicted due to the variation in the composition			-			-	
		and in the quantity of the decomposition products.	PHYSIC	CAL HAZ	ZARDS			0	
			PROTE	CTIVE E	EQUIPN	IENT		Ε	
			EYES	SKI	Ν	LUNG	S		
		•							
		5. FIREFIGHTING MEASURES							
5.1	Fire & Explosion Hazards:	This product is not flammable.							
i.2	Extinguishing Methods:	Water, CO ₂ , Halon or Dry Chemical							
.3	Firefighting Procedures:	Fight fires as for surrounding materials. Firefighters should wear a							
		equivalent self-contained breathing apparatus (SCBA) and protect					1 🗸 🛛	ר נ	
		fought from a safe distance. Keep containers cool until well after the from fire control or dilution from entering sewers, drains, drinking we					、 、 、		
		I ITOM THE CONTROL OF AURILION TROM ENLENNA SEWERS, ATAINS, ANNKING V	valer supp	ny, or an	iv natura	a	\setminus /		
				-	.,		\sim		
		waterway.		-			\sim		
		waterway.	RES						
6.1	Spills:	6. ACCIDENTAL RELEASE MEASU		als involv				wear	
6.1	Spills:	waterway.	ill, individu		ved in s	pill clear			
6.1	Spills:	waterway. 6. ACCIDENTAL RELEASE MEASU Spilled product may produce a slip hazard. Before cleaning any sp	ill, individu ses and	NIOSH a	ved in s	pill clear d (or ec	quivalent)	dus	
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6.1	Spills:	waterway. 6. ACCIDENTAL RELEASE MEASU Spilled product may produce a slip hazard. Before cleaning any sp appropriate Personal Protective Equipment including gloves, glas respirator. Carefully vacuum or sweep up the spilled powder, particular	ill, individu ses and ate or slag.	NIOSH a Dispose	ved in s approved e of prop	pill clear d (or ec	quivalent) ccordance	dust with e	
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		waterway. 6. ACCIDENTAL RELEASE MEASU Spilled product may produce a slip hazard. Before cleaning any sp appropriate Personal Protective Equipment including gloves, glas respirator. Carefully vacuum or sweep up the spilled powder, particula local, state, provincial and federal regulations. Wash all affected are thoroughly before reuse. T. HANDLING & STORAGE INFORMA Avoid contact to eyes, skin, and mucous membranes. Avoid inhal thoroughly after handling and use. Do not smoke, eat, drink, chew gur	ill, individu ses and ate or slag. as. Remo TION ation of v n or tobacc	NIOSH a Dispose ve any co apors, ga co, or app	ved in s approved of prop ontamina ases, fu	pill clear d (or ec erly in a ated clot mes and etics with	quivalent) ccordance hing and v d dusts. V hin the wo	dus e with wash Wash	
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7.1 7.2 7.3	Work & Hygiene Practices: Storage & Handling: Special Precautions:	waterway. 6. ACCIDENTAL RELEASE MEASU Spilled product may produce a slip hazard. Before cleaning any sp appropriate Personal Protective Equipment including gloves, glass respirator. Carefully vacuum or sweep up the spilled powder, particula local, state, provincial and federal regulations. Wash all affected are thoroughly before reuse. Avoid contact to eyes, skin, and mucous membranes. Avoid inhal thoroughly after handling and use. Do not smoke, eat, drink, chew gur area. Do not store or bring tobacco products, gum, food, drinks or co the standards of good industrial hygiene practices. No unusual methods are required. Keep product contained and retain a sheltered warm area with temperature and humidity control to preve Static charge may occur during powder transfer. Keep away from i containers slowly on a stable surface. Keep container tightly closed w Read and understand the manufacturer's instructions and the prev National Standard Z-49.1, "Safety in Welding, Cutting and Allied Society, P. O. Box 351040, Miami, FL 33135 and OSHA Publication Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, I and explosion control, exposure control and other special precautions. ACGIH NOHSC CHEMICAL NAME(S) TLV STEL ES-TWA IRON (5.0) NA NF OH (5.0) NA NF CHROMIUM # (0.5) NA (0.5) NF	ill, individu ses and ate or slag. as. Remo Ation of v n or tobacc osmetics w all warning hen not in cautionary Processes 2206 (29 PA 15250- ROTEC ES- PEAK NF NF	NIOSH a Dispose ve any co apors, ga co, or app ithin the g and ider nidity and le materia use. label on ," publish C.F.R. 19 7954 for PEL (10.0) (1.0) (15.0)	ved in s approved of prop ontamina ases, fu bly cosm working htity labe d "going als listed by 010), U.S addition OSHA STEL NA NA	pill clear d (or ec erly in a ated clot mes and etics with area. O els. Prefe through d in Sec oduct. the Ame S. Gover al details UDLH NA 25 (5000)	quivalent) ccordance hing and v d dusts. V hin the wol therwise for erred stora the dew po- tion 10. C See Ame erican We erican We inment Priis s regarding OTHER	dust with wash Wash orking follow age is ooint.' Open erican elding g fire	



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1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m ³)	CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	
		NICKEL	(5.0)	NA	NF	NF	NF	(5.0)	NA	NA	
		MANGANESE	(0.2)	(3)	(10.0)	NF	NF	(10.0)	NA	NA	
		IRON OXIDE	15	NA	(10.0) NF	NF	NF	10	NA	NA	FUME
		SILICON DIOXIDE	NA	NA	NF	NF	NF	20	NA	3000	1 OME
		ZIRCONIUM OXIDE	(5)	NA	(5)	NF	NF	(5)	NA	NA	
		VANADIUM	NA	NA	(0.05)	NF	NF	NA	NA	35	
.2	Ventilation & Engineering Controls:	Use industrial hygiene monitoring adequate ventilation (e.g., open equipment is available (e.g., sink large quantities of product and pro	doors ar , safety s	d windo hower, e	ws, local e eye-wash s	exhaust v station).	ventilation Use in a). Ensur chemical	e approp fume ho	oriate de	econtaminat
.3	Respiratory Protection:	CAUTION: Welding or cutting m these fumes and gases. Use ad ANSI Z49.1-1967 Safety in Weldi exposure within legal limits. In the must be kept below the TLVs a exposure as low as possible. Us confined space or where local ex- respiratory protection is necess selection of the appropriate respir potential airborne contaminants a	equate v ng and C e worker' nd the e e respira xhaust or ary, NIO atory pro	entilatior utting pu s breathi quivalen ble fume ventilati SH app tection (c	 Use NIC blished by ng zone and t exposure respirator on does n roved respirator dust respirator 	DSH app the Ame and the ge must c or air su ot keep biratory ator, etc.	roved res erican We eneral are ompute to upplied res exposure protection	piratory p Iding Soc a, the fun b less that pirator w below th should	orotection iety. Kee nes and in one. hen welc e TLV. N be used	a. See ep the gases Keep ling in Where . The	
.4	Eye Protection:	Wear helmet or use face shield w flash goggles, if necessary, to si goggles. Wear contact lenses in create a likelihood of injury from prohibited.	rith filter l hield oth combina	ens acco ers. Wea ation with	ording to Al ar safety g n safety ey	NSI Z87. lasses w /ewear,	rith UV pr except wh	otective solutions	side shie contact l	lds or enses	6
8.5	Hand Protection:	Wear head, hand and body prote radiation, UV radiation, abrasion prevent shock except for leather give equal performance) are prefe	s, contus if kept di	ions and	I heat stre	ss. Pro	tective clo	othing will	not ger	nerally	
8.6	Body Protection:	Wear head, hand and body prote shock. Wear flame resistant ear include heat/fire resistant gloves, Wear garments made of leather, oil, grease or solvents) and in go not roll up sleeves or trousers (pa	olugs to l overalls heavywe od repair	keep spa aprons ght tight Do not	rks out of sleeves, y woven w wear cloth	ears. Se footwear /ool or co	e ANSI Z , welder's otton. Kee	-49.1. The spats an p clothing	e clothing d head j clean (f	g may cover. ree of	
		9. PHYSICAL	8 CH	EMIC		PFR	TIES				
.1	Appearance:										
	Odor:	Solid wire, silver-grey color									
.2	-	Odorless									
3	Odor Threshold:	NA									
4	pH:	NA									
.5	Melting Point/Freezing Point:	NA									
6	Initial Boiling Point/Boiling Range:	NA									
.7	Flashpoint:	NA									
.8	Upper/Lower Flammability										
	Limits:	NA									
9	Vapor Pressure:	NA									
10	Vapor Density:	NA									
.11	Relative Density:	7.2 – 7.8 g/cm ³									
.12	Solubility:	NA									
.13	Partition Coefficient (log Pow):	NA									
	Autoignition Temperature:	NA									
.14	Decomposition Temperature:										
).14).15	Decomposition Temperature:	NA									
.14	Decomposition Temperature: Viscosity: Other Information:	NA NA NA									



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		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions of use (see section 7).
10.2	Hazardous Decomposition Products:	Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide) when burned or during
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Use or storage near incompatible substances.
10.5	Incompatible Substances:	Strong oxidizing agents, strong acids and bases.

11. TOXICOLOGICAL INFORMATION

44.4	Deuter of Fatau	
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO
11.2	Toxicity Data:	<u>Manganese & Manganese Oxides</u> : High short-term (acute) exposure to manganese and its compounds may cause "metal fume fever," a condition characterized by sever flu-like symptoms of chills, fever, upset stomach, vomiting, irritation of the throat and aching of the body. Symptoms generally disappear within 48 hours after discontinuation of exposure (for example over a weekend), may quickly reappear upon resumption of exposure ("Monday morning syndrome"), and may dissipate during the workweek as the body adjusts to exposure. Chronic overexposure to Manganese compounds may result in central nervous system (CNS) effects, with symptoms that may include behavioral changes, impairment of muscle function, and sexual dysfunction. In severe cases, irreversible CNS effects may result, with a host of symptoms that mimic Parkinson's disease or muscular dystrophy. <u>Molybdenum</u> : Overexposure to oxides of molybdenum may affect the body if they are inhaled, ingested or if they contact the eyes. Effects could include irritation of the eyes, nose, and throat, weight loss, and digestive disturbances. Long term effects are not known, but may be associated with muscle and joint aches, headache.
		Silicon & Silicon Oxides: (Amorphous Silica) Short term overexposure may be a possible eye irritant. Repeated
		inhalation of amorphous silica can cause pneumoconiosis or non-disabling fibrosis of the lung.
		<u>Titanium Oxides</u> : Oxides of titanium are considered to have minimal toxicity, as a nuisance dust. Exposure may cause mild irritation of the respiratory system and eyes.
		Additional Information: See Section 2, "Hazard Identification," for general overview of hazards associated with use of this product, and for health hazards and symptoms associated with acute and chronic exposures to welding fumes generated from this product. See Section 3 of this SDS for specific constituents of this product in order to determine applicability of information provided in this section.
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
11.5	Suspected Carcinogen:	<u>Nickel</u> is listed as IARC Group 2B (Possibly carcinogenic to humans); NTP15 Group 1 (Known human carcinogen); CA65 (cancer). <u>Titanium Dioxide</u> is listed as IARC Group 2B (Possibly carcinogenic to humans). <u>Chromium</u> in the form of "hexavalent chromium," is considered a human carcinogen, and thus a mutagen as well. While this product does not contain hexavalent chromium, it is well known that the chromium in this product is converted to various chemical forms during the welding process, including hexavalent chromium. Therefore, use of this product in normal welding operations must be considered to represent a cancer hazard. Other constituents of this product are not considered carcinogens or mutagens.). <u>Cobalt</u> is listed as ACGIH Group 2B (Possibly carcinogenic to humans).
		WARNING! This product can expose you to chemicals including <u>Hexavalent Chromium</u> , <u>Nickel</u> , <u>Cobalt</u> , and <u>Vanadium</u> , which are known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov.
11.6	Reproductive Toxicity:	Manganese compounds may be associated with reproductive system effects.
	Mutagenicity:	Chromium in the form of "hexavalent chromium," is believed to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
ļ	Teratogenicity:	This product is not reported to produce teratogenic effects in humans.
	Reproductive Toxicity:	Manganese compounds may be associated with reproductive system effects.
11.7	Irritancy of Product:	See Section 4.2
11.8	Biological Exposure Indices:	Consult Occupational Physician for the availability and appropriateness of biological exposure indices (e.g., blood tests, urine tests, etc.).
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	There are no specific data available for this product.
12.1	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product.
	Elicers of Aquatic Elic.	
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	



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		14. TRANSPORTATION INFORMATION
The I	basic description (ID Nur	nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional
		e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	NOT REGULATED
14.2	IATA (AIR):	NOT REGULATED
14.3	IMDG (OCN):	NOT REGULATED
14.4	TDGR (Canadian GND):	NOT REGULATED
14.5	ADR/RID (EU):	NOT REGULATED
14.6	SCT (MEXICO):	NOT REGULATED
14.7	ADGR (AUS):	NOT REGULATED
		15. REGULATORY INFORMATION
15.1	SARA Reporting Requirements:	The following chemicals are listed on the SARA Title III (EPCRA 313 Toxic Chemical List): Chromium, Manganese Cobalt, Nickel.
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities for the components of this product.
15.3	TSCA Inventory Status:	All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.
15.4	CERCLA Reportable Quantity:	<u>Chromium</u> : 2,270 kg (5,000 lbs); <u>Nickel</u> : 45.4 kg (100 lbs)
15.5	Other Federal Requirements:	<u>Manganese</u> (and its compounds), <u>Chromium</u> (and its compounds), <u>Cobalt</u> (and its compounds) and <u>Nickel</u> (and its compounds) are listed as Hazardous Air Pollutants (HAPs). <u>Manganese</u> (and its compounds), <u>Chromium</u> (and its compounds), <u>Cobalt</u> (and its compounds) and <u>Nickel</u> (and its compounds) are listed as Toxic Pollutants under the Clean Water Act (CWA). <u>Chromium</u> and <u>Nickel</u> are listed as Priority Pollutants under the Clean Water Act (CWA). This product does not contain any Class 1 or Class 2 ozone depletors.
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL The following chemicals are listed on the Ingredient Disclosure List: Chromium, Manganese, Nickel and Molybdenum.
15.7	State Regulatory Information:	Chromium is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), and Washington Permissible Exposures List (WA). <u>Titanium Dioxide</u> is found on the following state criteria lists: MA, NJ, and PA. <u>Silicon</u> is found on the following state criteria lists: MA, NJ, and PA. <u>Silicon</u> is found on the following state criteria lists: FL, MA, MN, NJ, and PA. <u>Zirconium Oxide</u> is found on the following state criteria lists: MA, NJ, and PA. <u>Manganese</u> is found on the following state criteria lists: FL, MA, MN, NJ, and PA. <u>Tungsten</u> is listed on the following state criteria lists: FL, MA, MN, NJ, PA, and WA. <u>Silicon</u> is found on the following state criteria lists: FL, MA, MN, NJ, PA, and WA. <u>Nickel</u> is listed on the following state criteria lists: fl, MA, MI, MN, NJ, PA and WA. <u>Nickel</u> is listed on the following state criteria lists: fl, MA, MI, MN, NJ, PA and WA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MJ), New York Hazardous Substances List (WI). Warning: This product can expose you to chemicals including Hexavalent Chromium, Nickel, Cobalt and Vanadium which are known to the State of California to cause cancer or reproductive harm. For more information, go to
15.8	Other Requirements:	www.P65Warnings.ca.gov. WARNING! This product can expose you to chemicals including <u>Hexavalent Chromium</u> , <u>Nickel</u> , <u>Cobalt</u> , and <u>Vanadium</u> , which are known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov.



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		16. OTHER INFORMATION
16.1	Other Information:	 DANGER! MAY CAUSE CANCER. MAY CAUSE DAMAGE TO ORGANS (LUNGS) THROUGH PROLONGED OR REPEATED EXPOSURE. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. Obtain, read and follow instructions before use. Do not breath dust/fume. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned, get medical advice. Get medical help if you feel unwell. If eye irritation persists: Get medical help. Store locked up. NOTE: Local ventilation should be used during handling and use. Good housekeeping and personal hygiene are recommended. Some individuals may show sensitivity to exposure. Failure to observe proper practices may be hazardous to health. Use only in well-ventilated areas. Harmful by inhalation. Avoid contact with skin and eyes. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation wear suitable respiratory protective equipment. Avoid overexposure to metal fumes, powders and particulates. WARNING: Electric shock from welding equipment or electrodes may be fatal. The welding process uses electrical energy into a localized, concentrated heat source. The tremendously high temperatures of the arc cause the welding end use and rod electrode (or filler metal, when used as such) to decompose. Electric arc working may create one or more health hazards. Hot metal spatter and heat from electric arcs, welding flames or the thermal spray process may cause burns to the hands and body or may cause fire if it comes into contact with combustible materials. UV, IR and l
		<u>Vanadium</u> , which are known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Cor-Met's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.
16.4	Prepared for:	Cor-Met, Inc. 12500 Grand River Road Brighton, MI 48116 USA Tel: +1 (810) 227-3251 Fax: +1 (810) 227-9266 http://www.cor-met.com/ E-mail: sales@cor-met.com
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 https://shipmate.com



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REACTIVITY

SPECIAL PRECAUTIONS

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

FIRST AID MEASURES:

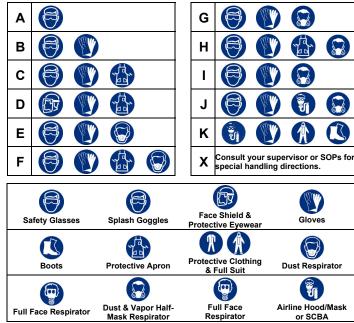
CPR Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.
--

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA			
FLAMMABILITY LIMITS IN AIR:			
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition		
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source		
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source		

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY	
1			
2	Moderate Hazard		
3	Severe Hazard		
4	Extreme Hazard		
ACD	Acidic		
ALK	Alkaline		
COR	Corrosive		
W	Use No Water	HEALTH	
OX	Oxidizer		
TREFOIL	Radioactive		

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals		
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal		
ppm	Concentration expressed in parts of material per million parts		
TD _{Io}	Lowest dose to cause a symptom		
TCLo	Lowest concentration to cause a symptom		
TD _{io} , LD _{io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects		
TC, TC _o , LC _{io} , & LC _o			
IARC	International Agency for Research on Cancer		
NTP	National Toxicology Program		
RTECS	Registry of Toxic Effects of Chemical Substances		
BCF	Bioconcentration Factor		
TLm	Median threshold limit		
log Kow or log Koc	Coefficient of Oil/Water Distribution		

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System		
DOT	U.S. Department of Transportation		
TC	Transport Canada		
EPA	U.S. Environmental Protection Agency		
DSL	Canadian Domestic Substance List		
NDSL	Canadian Non-Domestic Substance List		
PSL	Canadian Priority Substances List		
TSCA	U.S. Toxic Substance Control Act		
EU	European Union (European Union Directive 67/548/EEC)		
WGK	Wassergefährdungsklassen (German Water Hazard Class)		

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond					
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment