

Page 1 of 8 SDS-0005

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards SDS Revision: 3.3 SDS Revision Date: 10/21/2024

		1.	PRUIJUG	T & COM	PANT	11) 🗀 1	N I IF	ICA	TIOI	V				
1.1	Product Name:		T® NICKE				* 1 11	107	1101	•				
1.2	Chemical Name:	Nickel Base A		_ D/ (OL)										
1.3	Synonyms:		MC-G, FC-S, M	IC-T SW										
1.4	Trade Names:	N100A, N102	2, N82, N117, N F116, Super22F	N182, N276, N	122, N625	5, N62	5L, N6	25LAF	P, N71	8, 84,	85, 86	, F110), F111	, F112, F1122
1.5	Product Use:	Welding Wire												
1.6	Distributor's Name:	Cor-Met®, Inc												
1.7	Distributor's Address:	12500 Grand	River Road, Bri	ighton, MI 481	16									
1.8	Emergency Phone:	COR-MET	: +1 (800) 84	18-2719										
1.9	Business Phone / Fax:		227-3251 // Fax		-9266									
			2 4	ZARDS I	DENT	IFIC	۸۲۱۵)NI						
2.1	Hazard Identification:	Canadian WH DANGER! M REPEATED I	accordance with HMIS and Austra MAY CAUSE CA EXPOSURE. C 1: Carc. 1A; STO	n UN Globally alian Work Hea ANCER. MAY AUSES SERIO	Harmoniz alth and S CAUSE OUS EYE	ed sta afety s DAMA IRRIT	ndards tandar \GE T ATION	s. Inter ds. O ORO	GANS	(LUN	GS) TH	IROU	GH PR	OLONGED OR
		- May cause repeated exp Precautionary not breathe of thoroughly af Use only ou clothing/eye I and keep con for several mi	respiratory irrita osure. y Statements (P dust/fume. P26- fter handling. Putdoors or in a protection/face infortable for bre inutes. Remove concerned, ge	tition. H372 – (): P203 – Obt. 4 – Wash han. 270 – Do not. a well-ventilate protection. P3 athing. P305+ contact lenses	Causes da ain, read a ds and ex eat, drink ed area. 804+P340 -P351+P3 s, if prese	amage and foll kposed c or sm P280 - IF I 338 – If nt and	to org	ans (lu structio areas v hen us ear pr ED: Re YES: F o do. C edical	ns bef vith so sing th otective move Rinse o	fore us pap an als prove glo person autiou ue rins	e. P26 d warm duct. I ves/pro on to fr sly with ing. P3	nged of 0 – Do n wate 2271 – otective esh ai n wate 318 – I	r c r r r f	
22.3	Other Warnings:	P337+P317 - of contents at WARNING: E circuits that is energy into a continuous w one or more if may cause bu light radiation and gases ge damage heat published by WAR are k	If eye irritation on container to a Electric shock function a localized, condition and rod electric and rod electric enerated during ring. See also the American W. NING! This processor of the S. P65Warnings.ca	persists: Get ra licensed trea rom welding en garc between centrated heat ctrode (or filler Hot metal spats and body or carc may caus the welding property American Na religious duct can expositate of Califo	medical heterone, store quipment in the electrone metal, what it is a damag occess can attional. Start for additione you to comment of the country of the co	orage of the control of the tree to under the tree tree tree tree tree tree tre	r disponential dis	es may es may ne bas ously l such) ctric ar nes inte ted ey to you 1, "Sa recauti	cility (Type factoring) be factoring to dectors, we continued to the conti	up. Ps SDF). atal. The empera omposedding fact with ear su h and Weld and haz valent (he welding welding tures of the combitable processing, Coard walcome.	ding parc of the ectric a or the oustible protect genera utting rnings.	process conver arc cau irc work therma e mater ive equ ted dur and Al	ts the electricause the welding in the welding may created spray processials. UV, IR and injument. Fumering welding carlied Processes and Cobalt, which
2.3	Other Warnings:	P337+P317 - of contents at WARNING: E circuits that is energy into a continuous w one or more if may cause bu light radiation and gases ge damage heat published by WAR are k www.	If eye irritation and container to a Electric shock for sustain a welding a localized, convire and rod electric to the hazards. It is a from an electric enerated during ring. See also the American W. NING! This processor is a processor of the Sp65Warnings. Care Electric irritation of the Sp65Warni	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal sparts and body or carc may caus the welding property American Nawelding Society duct can expositate of Califo a.gov.	medical hetement, storequipment in the electron metal, whater and hemore see damag occess can ational. Start for additional to commit to	orage of the ctrode of the tree then us neat from the tree to un note the tree tree tree tree tree tree tre	r disponential reduction of the control of the cont	osal factors may ne base ously he such) octric armes into ted eye to your 1, "Sarrecauti luding or re	cility (Ty be fare plate to decress, we controlled to decress. We refet yield to decrease and decrease the	up. Pt SDF). atal. The empera- omposedding fact with ear su h and welding haz valent (ctive h	he welding welding tures of the combitable processing, Coard walcome.	ding parc of the ectric a or the oustible protect genera utting rnings.	process conver arc cau irc work therma e mater ive equ ted dur and Al	ts the electricause the welding in the welding may created spray processials. UV, IR and injument. Fumering welding carlied Processes and Cobalt, which
2.3	Other Warnings:	P337+P317 - of contents at WARNING: E circuits that is energy into a continuous w one or more if may cause bu light radiation and gases ge damage heat published by WAR are k www.	If eye irritation and container to a Electric shock for sustain a welding a localized, convire and rod electric to the hazards. It is a from an electric enerated during ring. See also the American W. NING! This processor	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal sparts and body or carc may caus the welding property American Nawelding Society duct can expositate of Califo a.gov.	medical hetement, storequipment in the electron metal, whater and hemore see damag occess can ational. Start for additional to commit to	orage of the ctrode of the tree then us neat from the tree to un note the tree tree tree tree tree tree tre	r disponential reduction of the control of the cont	osal factors may ne base ously he such) octric armes into ted eye to your 1, "Sarrecauti luding or re	tility (Ty be fare plated in the plated in t	up. Pt SDF). atal. The empera- omposedding the act with ear such and in Weld- in Weld- ind haz valent (continued)	he welding welding tures of the combination of the combined properties of t	ding pag arc of the ectric a cor the oustible protect genera utting rnings.	process conver arc cau irc work therma e mater ive equ ted dur and Al	ts the electricause the welding in the welding may created spray processials. UV, IR and injument. Fumering welding carlied Processes and Cobalt, which
2.3	Other Warnings:	P337+P317 - of contents at WARNING: E circuits that is energy into a continuous w one or more if may cause bu light radiation and gases ge damage heat published by WAR are k www.	If eye irritation and container to a Electric shock for sustain a welding a localized, convire and rod electric to the hazards. It is a from an electric enerated during ring. See also the American W. NING! This processor is a processor of the Sp65Warnings. Care Electric irritation of the Sp65Warni	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal sparts and body or carc may caus the welding property American Nawelding Society duct can expositate of Califo a.gov.	medical hetement, storequipment in the electron metal, whater and hemore see damag occess can ational. Start for additional to commit to commit to commit to commit to commit to commit in the start for additional to commit to c	orage of the ctrode of the tree then us the ctrode of the	r disponential reference of the mending of the mend	osal faces may ne base ously I such) ctric ar nes inteted eye to your 1, "Sa recauti luding or re	y be far y b	up. Person Perso	he welding welding tures of the combitable processing, Coard walcome.	ding page are of the extric a cor the oustible protect genera utting rnings.	process conver arc cau irc work therma e mater ive equ ted dur and Al	ts the electricause the welding in the welding may created spray processials. UV, IR and injument. Fumering welding carlied Processes and Cobalt, which
2.3	Other Warnings:	P337+P317 - of contents at WARNING: E circuits that is energy into a continuous w one or more if may cause bu light radiation and gases ge damage heat published by WAR are k www.	If eye irritation and container to a Electric shock for sustain a welding a localized, convire and rod electric to the hazards. It is a from an electric enerated during ring. See also the American W. NING! This processor is a processor of the Sp65Warnings. Care Electric irritation of the Sp65Warni	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal sparts and body or carc may caus the welding property American Nawelding Society duct can expositate of Califo a.gov.	medical hetement, storequipment in the electron metal, whater and hemore see damag occess can ational. Start for additional to commit to commit to commit to commit to commit to commit in the start for additional to commit to c	orage of the ctrode of the tree then us neat from the tree to un note the tree tree tree tree tree tree tre	r disponential received and the mend as ome lear fit comproted armful Z-49. Afety pals incommend and the mend	osal faces may ne base ously I such) ctric ar nes inteted eye to your 1, "Sa recauti luding or re	y be far y b	up. Person Perso	he welding welding tures of the combination of the combined properties of t	ding pag arc of the ectric a cor the oustible protect genera utting rnings.	process conver arc cau irc work therma e mater ive equ ted dur and Al	ts the electricause the welding in the welding may created spray processials. UV, IR and injument. Fume in gwelding carlied Processes and Cobalt, which
		P337+P317 - of contents at WARNING: E circuits that is energy into a continuous wone or more may cause but light radiation and gases gedamage heat published by WAR are k www. 3. Co	- If eye irritation nd container to a Electric shock f sustain a weldir a localized, convire and rod electric shealth hazards. urns to the hand of from an electric enerated during ring. See also the American W. NING! This procession to the S. P65Warnings.ca	persists: Get ra licensed treatrom welding engarc between centrated heat ctrode (or filler Hot metal spals and body or carc may caus the welding properties of Califorate	medical hetement, store equipment in the electron metal, whatter and he may caus see damag occess can attional Store you to cornia to co	prage of the crede of the tree of tree	r disponent disp	osal faces may ne baseously it such) ctric ar nes inteted eye to you 1, "Sar recauti luding or re	y be far be plated by the plate of the plate	up. Per SDF). atal. The support of t	he weldin weldin atures of se. Electrometric filmes for the combination of the combinatio	ding pag arc of the ectric a or the oustible protecting general utting rnings. AIR (mg OSHA ppm	orocess conver arc cau irc work therma e mater ive equ ted dur and Al ickel an ore info	ts the electricause the welding may create all spray processials. UV, IR and ipment. Fumering welding carlied Processes and Cobalt, which promation, go to
	Other Warnings:	P337+P317 - of contents at WARNING: E circuits that is energy into a continuous wone or more may cause builght radiation and gases gedamage heat published by WAR are kowww. 3. CO	- If eye irritation nd container to a Electric shock f sustain a weldir a localized, condire and rod electric shealth hazards. urns to the hand of from an electric enerated during ring. See also the American W. NING! This procont to the S. P65Warnings.cc	persists: Get ra licensed treatrom welding engarc between centrated heat ctrode (or filler Hot metal spals and body or carc may caus the welding propersion of Californ Society duct can expositate of Californ and Californ Society duct can expositate of Californ Society duct can exposit socie	medical hetement, store equipment in the electron metal, whater and he may caus see damage occess caustional Star for additional Star for additional store eyou to commit to committee the see the see the seed and t	prage of the crede of the tree to under the crede of the	r disponent of the result of t	es al faces may ne base ously he such) ctric armes interested eye to your 1, "Sarrecauti luding or re	point of the control	up. Person Perso	he weldin weldin atures of se. Electer flames he combitable properties of the combination	ding pag arc of the ectric a or the oustible protect general utting rnings. AIR (mg OSHA ppm STEL	orocess conver arc cau rc work therma e mater ive equ ted dur and Al ckel and cre info	ts the electricause the welding in the welding may created spray processials. UV, IR and injument. Fumering welding carlied Processes and Cobalt, which
немі	CAL NAME(S)	P337+P317 - of contents all WARNING: Expensive that is energy into a continuous where one or more may cause builght radiation and gases gently damage heat published by WAR are known. 3. CC CAS No. 7440-02-0	- If eye irritation nd container to a Electric shock f sustain a weldir a localized, condire and rod electric shealth hazards. urns to the hand of from an electric enerated during ring. See also the American W. NING! This procont to the S. P65Warnings.cc	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal spals and body or carc may caus the welding propersion of California Society duct can expositate of California gov. ON & INC	medical hetement, store equipment in the electron source. In metal, whater and he may caus see damag occess caustional Star for additional occurring to compare to compare the second se	prage of the crede of the tree to under the crede of the	r disponent of the mend of the	es al faces may ne base ously he base ously he such) ctric armes inteted eye to your 1, "Sa recauti luding or re	y be far be plated by the plate of the plate	up. Per SDF). atal. The support of t	he weldin weldin atures of se. Electrometric filmes for the combination of the combinatio	ding pag arc of the ectric a or the oustible protecting general utting rnings. AIR (mg OSHA ppm	orocess conver arc cau irc work therma e mater ive equ ted dur and Al ickel an ore info	ts the electricause the welding may create all spray procesials. UV, IR and ipment. Fume ing welding callied Processes and Cobalt, which promation, go to the company of th
немі	CAL NAME(S)	P337+P317 - of contents all WARNING: E circuits that is energy into a continuous wone or more may cause bulight radiation and gases gedamage heal published by WAR are k www. 3. CC CAS No. 7440-02-0 Carc. 2; STOT R	If eye irritation nd container to a Electric shock f sustain a weldir a localized, condire and rod electric shealth hazards. urns to the hands from an electric enerated during ring. See also the American W. NING! This procession to the S. P65Warnings.ca	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal spals and body or carc may caus the welding proper American Na/elding Society duct can expositate of Califo a.gov. CON & INC EINECS No. 231-111-4; Aquatic Chronice	medical hetement, storequipment in the electron metal, will telement and he may cause damag occess carbitional. Star for additional to compare the com	prage of the crede of the tree to unique of the tree tree tree tree tree tree tree	r disponent of the mend of the	es al faces may ne base ously he base ously he such) ctric armes intested eye to your 1, "Sa recauti luding or re	positive (TAT) The product of the plate of the plate of the control of the plate o	up. Person Perso	he welding welding tures of the combination of the	ding pag arc of the ectric a or the oustible protect genera utting mings. AIR (mg OSHA ppm STEL NA	orocess conver arc causer work thermale mater ive equited duried duried duried and Allockel and ore info	ts the electricause the welding may create all spray procesials. UV, IR and ipment. Fume ing welding callied Processes and Cobalt, which promation, go to the company of th
HEMI	CAL NAME(S)	P337+P317 - of contents all WARNING: Expensive that is energy into a continuous where one or more may cause builght radiation and gases gently damage heat published by WAR are known. 3. CC CAS No. 7440-02-0	- If eye irritation nd container to a Electric shock f sustain a weldir a localized, condire and rod electric shealth hazards. urns to the hand of from an electric enerated during ring. See also the American W. NING! This procont to the S. P65Warnings.cc	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal spals and body or carc may caus the welding propersion of California Society duct can expositate of California gov. ON & INC	medical hetement, store equipment in the electron source. In metal, whater and he may caus see damag occess caustional Star for additional occurring to compare to compare the second se	prage of the crede of the tree to under the crede of the	r disponent of the mend of the	es al faces may ne base ously he base ously he such) ctric armes inteted eye to your 1, "Sa recauti luding or re	point of the control	up. Person Perso	he weldin weldin atures of se. Electer flames he combitable properties of the combination	ding pag arc of the ectric a or the oustible protect general utting rnings. AIR (mg OSHA ppm STEL	orocess conver arc cau rc work therma e mater ive equ ted dur and Al ckel and cre info	ts the electricause the welding may created a spray processials. UV, IR anipment. Fumeing welding callied Processes and Cobalt, which commation, go to
HEMI ICKE HRC	CAL NAME(S)	P337+P317 - of contents all WARNING: E circuits that is energy into a continuous wone or more may cause bulight radiation and gases gedamage heal published by WAR are k www. 3. CC CAS No. 7440-02-0 Carc. 2; STOT R	If eye irritation nd container to a Electric shock f sustain a weldir a localized, condire and rod electric shealth hazards. urns to the hands from an electric enerated during ring. See also the American W. NING! This procession to the S. P65Warnings.ca	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal spals and body or carc may caus the welding proper American Na/elding Society duct can expositate of Califo a.gov. CON & INC EINECS No. 231-111-4; Aquatic Chronice	medical hetement, storequipment in the electron metal, will telement and he may cause damag occess carbitional. Star for additional to compare the com	prage of the crede of the tree to unique of the tree tree tree tree tree tree tree	r disponent of the mend of the	es al faces may ne base ously he base ously he such) ctric armes intested eye to your 1, "Sa recauti luding or re	positive (TAT) The product of the plate of the plate of the control of the plate o	up. Person Perso	he welding welding tures of the combination of the	ding pag arc of the ectric a or the oustible protect genera utting mings. AIR (mg OSHA ppm STEL NA	orocess conver arc causer work thermale mater ive equited duried duried duried and Allockel and ore info	ts the electricause the welding may create all spray procesials. UV, IR and ipment. Fume ing welding callied Processes and Cobalt, which promation, go to the company of th
HEMI IICKE HRO	CAL NAME(S)	P337+P317 of contents an WARNING: Exercise that is energy into a continuous where one of the continuous where of the continuou	- If eye irritation nd container to a Electric shock f sustain a weldir a localized, convire and rod electric shealth hazards. urns to the hands from an electric enerated during ring. See also the American W. NING! This processor to the Sp65Warnings.cc	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal spals and body or carc may caus the welding product can expositate of Califo a.gov. ON & INC EINECS No. 231-111-4 Aquatic Chronic 231-157-5	medical hetement, storequipment the electron source. The may cause damag occess carbinal Start for additional to compare the c	prage of the control of the tree to unit of the tree tree to unit of the tree tree tree tree tree tree tree	r disponent disp	osal faces may ne base ously he such) ctric armes inteted eyetto your 1, "Sarecauti luding or re Estrua NF H412 (0.5)	point of the control	up. Person Perso	he welding welding welding fames he combitable properties for the combitable process of the comb	ding page are of the ectric a or the oustible protect genera utting rnings. AIR (mg OSHA ppm STEL NA	orocess conver arc cat reconver arc cat reconver arc cat reconver and there are mater inve equited during and Al reconversion in the reconversion	ts the electricause the welding may create all spray procesials. UV, IR and injument. Fume ing welding callied Processes and Cobalt, which processes of the Cobalt of the community of the commun
HEMI IIICKE CHRC RON	CAL NAME(S) EL MIUM # BDENUM	P337+P317 of contents an WARNING: Exercise that is energy into a continuous where one of may cause builight radiation and gases generated and gases generated by WAR are known. 3. CO CAS No. 7440-02-0 Carc. 2; STOT R 7440-47-3	- If eye irritation nd container to a Electric shock f sustain a weldir a localized, convire and rod electric shealth hazards. urns to the hands from an electric enerated during ring. See also the American W. NING! This process of the M. NING!	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal spals and body or carc may caus the welding properties of California Canagov. ON & INC EINECS No. 231-111-4 Aquatic Chronic 231-157-5	medical hetement, storequipment in the electron metal, whater and he may cause damag occess can actional. Start for additional to compare the compare	prage of the control	r disponent of the mend of the	osal faces may ne base ously he such) ctric armes interested eye to your 1, "Sa recauti luding or re CRN EST NF H412 (0.5)	y be far e plate e pla	up. Person Perso	he welding welding welding tures of the combitation of the combination	ding pag arc of the ectric a or the oustible protect general utting rnings. AIR (mg OSHA ppm STEL NA NA NA NA	orocess conver arc causer work therma e mater ive equited durand Al cickel and ore infore inf	ts the electricause the welding may create all spray processials. UV, IR and injument. Fumering welding callied Processes and Cobalt, which processes of Cobalt, which processes of Cobalt which process
HEMI IIICKE RON MOLY	CAL NAME(S) EL MIUM # BDENUM	P337+P317 of contents at WARNING: Exercises that is energy into a continuous wone or more may cause buight radiation and gases gedamage hear published by WAR are kwww. 3. CC CAS No. 7440-02-0 Carc. 2; STOT R 7440-47-3 7439-89-6 7439-98-7	- If eye irritation nd container to a Electric shock f sustain a weldir a localized, convire and rod electric shealth hazards. urns to the hand of from an electric enerated during ring. See also the American W. NING! This processor of the American W. P65Warnings.ca OMPOSITI RTECS No. QR5950000 RE 1; Skin Sens. 1; GB4200000 QA4680000 GF8750000 esp. Sens. 1, Aqua	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal spans and body or arc may caus the welding properties of Califorand Califo	medical hetement, storequipment in the electron source. In the electron metal, whater and he may cause damag occess cardional Start for additional start for	prage of the property of the p	r disponent of the control of the co	osal faces may ne base ously he such) ctric armes interested eye to your 1, "Sarecauti luding or re CRN ESTWA NF H412 (0.5) NF (10.0)	production of the production o	up. Person Perso	he welding welding tures of se. Electrical E	ding page arc of the ectric acording protection of the custible protection of the customer o	orocess conver arc caure work therma e mater ive equited durand Al ickel and ore infore infor	ts the electricause the welding may create spray procesials. UV, IR and injument. Fume ing welding callied Processes and Cobalt, which ormation, go to OTHER
HEMI ICKE HRC RON IOLY	CAL NAME(S) EL MIUM # BDENUM	P337+P317 of contents at WARNING: Exercise that is energy into a continuous wone or more may cause buight radiation and gases gedamage hear published by WAR are kwww. 3. CC CAS No. 7440-02-0 Carc. 2; STOT R 7440-47-3 7439-89-6 7440-48-4	- If eye irritation nd container to a Electric shock f sustain a weldir a localized, convire and rod electric shealth hazards. urns to the hand of from an electric enerated during ring. See also the American W. NING! This process of the American W. P65Warnings.ca	persists: Get ra licensed trea rom welding eng arc between centrated heat ctrode (or filler Hot metal spans and body or arc may caus the welding properties of Califorand Califo	medical hetement, storequipment in the electron source. In the electron metal, whater and he may causse damag occess cardional Start for additional to compare the source of the second start of the second st	prage of the present	r disponent of the mend of the	osal faces may ne base ously he such) ctric armes inteted eye to your 1, "Sa recauti luding or re CRN EST WA NF (10.0)	production of the production o	up. Person Perso	he welding welding tures of the combitation of the combitation of the combination of the	ding pag arc of the ectric a or the oustible or or the pentageneral utting rnings. AIR (mg OSHA ppm STEL NA	orocess conver arc causer work therma e mater ive equited durand Al ickel and ore infore info	ts the electricause the welding may create spray procesials. UV, IR and injument. Fume ing welding callied Processes and Cobalt, which ormation, go to OTHER



Page 2 of 8 SDS-0005

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

SDS Revision: 3.3

SDS Revision Date: 10/21/2024

								EXPC	SURE L	IMITS IN	AIR (m	g/m³)	
					AC	GIH		NOHSC	;		OSHA		
					pp	m		ppm			ppm		†
							ES-	ES-	ES-				
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	TWA	STEL	PEAK	PEL	STEL	IDLH	OTHER
NIOBIUM	7440-03-1	QT9900000	231-113-5	0-5	(5.0)	NA	NF	NF	NF	(5.0)	NA	NA	
SITANII IM DIOVIDE	13463-67-7	XR2275000	236-675-5	0-5	(10)	NA	(10)	NF	NF	(15)	NA	NA	TOTAL DUS
FITANIUM DIOXIDE	Carc. 2; H351												
	7789-75-5	EW1760000	232-188-7	0-5	NA	NA	NF	NF	NF	NA	NA	NA	
CALCIUM FLUORIDE	Skin Irrit. 2; Ey	e Irrit. 2; STOT SE	3; H315, H319										
A L LINAINILINA	7429-90-5	BD0330000	231-072-3	0-5	NA	NA	NF	NF	NF	NA	NA	NA	
ALUMINUM	Water-react. 2	; Flam. Sol. 1; H26	1, H228										
SULCON	7440-21-3	VW0400000	231-130-8	0-4	(10.0)	NA	(10.0)	NF	NF	(10.0)	NA	NA	
SILICON													
TITANIIIINA	7440-32-6	XR1700000	231-142-3	0-4	NA	NA	NF	NF	NF	NA	NA	NA	
TITANIUM													
DODON *	7440-42-8	ED7350000	231-151-2	0-3	(10.0)	NA	NF	NF	NF	(15.0)	NA	NA	
BORON *													
IDON OVIDE	1332-37-2	NO7380000	215-570-8	0-2	15	NA	NF	NF	NF	10	NA	NA	FUME
IRON OXIDE													
POTASSIUM TITANATE	12030-97-6	NA	234-748-6	0-2	NA	NA	NF	NF	NF	NA	NA	NA	
POTASSION ITTAINATE													
ZIRCONIUM OXIDE	1314-23-4		215-227-2	0-2	(5)	NA	(5)	NF	NF	(5)	NA	NA	
ZIRCONIUM OXIDE	Skin Irrit,. 2; Ey	ye Irrit. 2A; STOT S	SE 3; H315, H31	9, H335									
MAGNESIUM OXIDE	1309-48-4	OM3850000	215-171-9	0-2	(10)	NA	(10)	NF	NF	(15)	NA	750	
WIAGINESIOW OXIDE													
CARBON	7440-44-0	FF5250100	231-153-3	0-1	(3.5)	NA	NF	NF	NF	(3.5)	NA	(1750)	
CARDON													
COPPER	7440-50-8	GL5325000	231-159-6	0-1	(1.0)**	NA	(1.0)	NF	NF	(1.0)	NA	NA	(0.2) FUME

The exposure limit for welding fume has been established at 5 mg/m3 with OSHA's PEL and ACGIH's TLV. The individual complex compounds within the fume may have lower exposure limits than the general welding fume 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

4.1	First Aid:	Eyes:	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.
		Skin:	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.
4.2	Effects of Exposure:	Ingestion:	Gastrointestinal irritation, nausea, and/or vomiting.
		Eyes:	Mild to moderate irritant.
		Skin:	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.
4.3	Symptoms of Overexposure:	Ingestion:	Intestinal discomfort, nausea, vomiting, and diarrhea.
		Eyes:	Mild irritation, redness, and watering.
		Skin:	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.
4.4	Acute Health Effects:	Ingestion:	Gastrointestinal irritation and central nervous system depression.
		Eyes:	Mild to moderate irritant.
		Skin:	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
' l			chest and fever. Symptoms may last 24-48 hours following overexposure.



Page 3 of 8 SDS-0005

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards SDS Revision: 3.3 SDS Revision Date: 10/21/2024

	,	4. FIRST									
4.5	Chronic Health Effects:	Ingestion: Ingestion or inhala Skin: Prolonged or reperimentation: Long term exposurintation or pneum irritation of the remanganese compounds shoul	the manufa eated contact are to weldin noconiosis espiratory to ounds may include sloonly, tremor	ncturer. ot may cang and a or "sider ract, lung affect the wness, cand bel	ause contact allied procestosis." Inha g damage the central re changes in the	ct derma sses gas alation of and astl nervous handwrit anges. I	titis (locali es, dusts fume wit nma-like s system. S ing, gait i Employees	zed redno and fume h chromio symptoms symptoms mpairmer s who ar	ess or rages may of the control of t	ash). contribute compour g-term ov e similar cle spasn xposed	e to pulmonar nds can caus rerexposure to to Parkinson' ns and cramp
4.6	Target Organs:	Eyes, Skin & Respiratory Syste									
1.7	Medical Conditions Aggravated by Exposure:	Individuals with allergies or im symptoms worsened by exposi					HEALT				1
		reaction cannot be predicted d	ue to the va	ariation i				IABILIT'			0
		and in the quantity of the decom	position pr	oducts.				CAL HAZ			0
						-		CTIVE E			E
							EYES	SKI	N	LUNG	S
		5. FIRE	FIGHT	ING N	MEASU	RES					
5.1	Fire & Explosion Hazards:	This product is not flammable.			, 100						
5.2	Extinguishing Methods:	Water, CO ₂ , Halon or Dry Chem	nical								
		Fight fires as for surrounding equivalent self-contained brea fought from a safe distance. If from fire control or dilution frowaterway.	thing appa Keep contai	ratus (S ners cod	CBA) and ol until well	protective after the	e clothin fire is o	g. Fire s ut. Preve	hould bent runc	off	0
	I o :::	6. ACCIDEN									
6.1	Spills:	6. ACCIDENT Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fedenthoroughly before reuse.	slip hazar ve Equipmo sweep up	d. Beforent incluing the spille	re cleaning uding glove ed powder, p	any spi es, glass particula	ll, individuses and te or slag.	NIOSH a Dispose	approved of prop	d (or ed erly in a	uivalent) dus ccordance wit
6.1	Spills:	Spilled product may produce a appropriate Personal Protectiv respirator. Carefully vacuum or local, state, provincial and fede thoroughly before reuse.	slip hazar ve Equipmo sweep up ral regulatio	d. Beforent incluing the spille ons. Wa	re cleaning uding glove ed powder, p ash all affec	any spi es, glass particula eted area	ll, individuses and te or slagus. Remo	NIOSH a Dispose	approved of prop	d (or ed erly in a	uivalent) dus ccordance wit
	Spills: Work & Hygiene Practices:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fede thoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and userea. Do not store or bring tob.	slip hazarde Equipmon sweep up ral regulation and mucouse. Do not sacco produ	d. Beforent inclute spille ons. Was DRAG s members moke, ects, gum	re cleaning glove ed powder, pash all affective. BE INFC ranes. Avo eat, drink, ch	any spi es, glass particula ted area DRMA id inhala new gum	II, individuoses and te or slag. s. Remo	NIOSH a Dispose ve any co	approved e of propontamina ases, fu	d (or ecperly in acated clot mes and etics with	uivalent) dus coordance wit hing and was d dusts. Was hin the working
7.1		Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fede thoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and use	slip hazare re Equipme sweep up ral regulation 3 & STO and mucous se. Do not se acco produe hygiene pr ped. Keep pr perature ar g powder tr	d. Beforent inclutes pilled ons. War DRAG on members moke, ects, gum actices. oduct cond humid ansfer.	re cleaning glove of powder, pash all affect of the control of the	any spi ss, glass particula ted area DRMA id inhala new gum ks or co d retain a o prever / from ir	II, individuoses and te or slag. S. Remo	Apors, gaco, or apprithin the midity and idermidity and le materia	approve e of propontaminasses, fully cosm working htity label	mes and etics with area. Of	uivalent) dus coordance withing and was didusts. Was nin the working therwise follow rred storage in the dew point.
7.1	Work & Hygiene Practices:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fede thoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, at thoroughly after handling and userea. Do not store or bring tobe the standards of good industrial No unusual methods are required a sheltered warm area with tem Static charge may occur during	slip hazari re Equipmo sweep up ral regulation and mucous se. Do not se acco product hygiene pred. Keep preature ar g powder tr grace. Kee nufacturer's fety in We armi, FL 331 ments, P.O	d. Beforent incluthe spilled ons. Was provided to the spilled ons. Was provided to the spilled on the spilled o	re cleaning glove and powder, pash all affect as all affec	any spi is, glass particula ited area DRMA id inhala id inhala new gum ks or co d retain a o prever / from ir losed what the prec Allied F lication 2 burgh, F	TION ation of v or tobacc smetics we wall warning thigh hur tocompatible in not in autionary processes 2206 (29	apors, gaco, or apprithin the midity and le materia use. label on ," publish C.F.R. 19	approved of proportaminases, fully cosm working also listed this prined by \$10), U.S.	mes and etics with area. Or ethrough d in Sectoroduct.	uivalent) dus coordance withing and was didusts. Was nin the working therwise follow rred storage in the dew point. ion 10. Open See America erican Welding
7.1	Work & Hygiene Practices: Storage & Handling:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fedenthoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and userea. Do not store or bring tobe the standards of good industrial No unusual methods are required a sheltered warm area with tem Static charge may occur during containers slowly on a stable standard Z-49.1, "Sa Society, P. O. Box 351040, Mic Office, Superintendent of Docu and explosion control, exposure	slip hazari re Equipmo sweep up ral regulation and mucous se. Do not se acco product hygiene pred. Keep preature ar g powder tr grace. Kee nufacturer's fety in We armi, FL 331 ments, P.O	d. Beforent incluthe spilled ons. Was provided to the spilled ons. Was provided to the spilled on the spilled o	re cleaning glove and powder, pash all affect as all affec	any spi ss, glass particula ted area DRMA id inhala id inhala new gum ks or co d retain a o prever / from ir losed what the prece Allied F lication is burgh, F autions.	TION ation of vortobaccompatiben not in autionary Processes 2206 (29 A 15250-	apors, gaco, or apprithin the materia use. label on "publish C.F.R. 197954 for	approved of proportaminasses, fully cosm working httity labed I "going als listed this proped by 10), U.S.	mes and etics with area. Or ethrough d in Sectoroduct.	uivalent) dus coordance withing and was didusts. Was nin the working therwise follow rred storage in the dew point. ion 10. Open See America erican Welding
7.1	Work & Hygiene Practices: Storage & Handling: Special Precautions:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fede thoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and userea. Do not store or bring tobe the standards of good industrial No unusual methods are required a sheltered warm area with tem Static charge may occur during containers slowly on a stable standard Z-49.1, "Sa Society, P. O. Box 351040, Mic Office, Superintendent of Docu	slip hazare e Equipme sweep up ral regulation of the sweep up ral regulation of the sweep up ral regulation of the sweep up rature are powder to produce. Keep programmer of the sweep up rature are powder to race. Keep up rature are powder to race. Keep up rature is feety in Weami, FL 331 ments, P.O. e control and	DRAG s memb smoke, e cts, gum actices. oduct co d humid ansfer. p contain s instrucelding, C 35 and . Box 37 d other s	re cleaning glove and powder, pash all affect as all affec	any spi is, glass particula ited area DRMA id inhala inew gum ks or co d retain a o prever / from ir losed wh the pred Allied F lication a burgh, F autions.	TION ation of vortobaccompatiben not in autionary Processes 2206 (29 A 15250-	apors, gaco, or apprithin the materia use. label on "publish C.F.R. 197954 for	ases, fully cosmoworking this priced by 110), U.S. addition	mes and etics with area. Or ethrough d in Sectoroduct.	duvalent) dus coordance withing and was dusts. Was nin the working therwise follow rred storage in the dew point. ion 10. Ope See America rican Welding nment Printings regarding fire
7.1	Work & Hygiene Practices: Storage & Handling:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fedenthoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and userea. Do not store or bring tobe the standards of good industrial. No unusual methods are required a sheltered warm area with tem Static charge may occur during containers slowly on a stable sure Read and understand the man National Standard Z-49.1, "Sa Society, P. O. Box 351040, Mic Office, Superintendent of Document and explosion control, exposure 8. EXPOSURE CON	slip hazari re Equipme sweep up ral regulation of the sweep up ral regulation of the sweep up rate. Do not seed to produce hygiene preduced the preduced hygiene preduced the preduced the regulation of the sweep up red. Keep preduced the preduced the preduced the preduced the preduced the sweep up to t	DRAG s memb smoke, e cts, gum actices. oduct co d humid ansfer. p contain s instruc elding, C elding, C elding, C d other s 6 & PE GIH	re cleaning glove ad powder, pash all affect ranes. Avo eat, drink, changed from the control to Keep away ner tightly cottons and to cutting and ranes. Avo SHA Pub 17954, Pitts special precessory.	any spi ss, glass particula ted area DRMA id inhala new gum ks or co d retain a o prever y from ir losed wh the prec Allied F lication 2 burgh, F autions. AL PF NOHSC ES-	TION ation of vortobaccommetics with high huricompatibe not in autionary Processes 2206 (29 A 15250-ROTEC	apors, gaco, or apprithin the materia use. label on "," publish C.F.R. 197954 for	ases, fully cosm working this prined by 100, U.S. addition	mes and etics with area. Of the coduct. The Ames. Governal details	uivalent) dus coordance withing and was didusts. Was nin the working therwise follow rred storage in the dew point. ion 10. Open See America erican Welding
'.1 '.2	Work & Hygiene Practices: Storage & Handling: Special Precautions:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fedenthoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and userea. Do not store or bring tobe the standards of good industrial No unusual methods are required a sheltered warm area with tem Static charge may occur during containers slowly on a stable standard Z-49.1, "Sa Society, P. O. Box 351040, Mic Office, Superintendent of Docu and explosion control, exposure	slip hazare e Equipme sweep up ral regulation of the sweep up ral regulation of the sweep up ral regulation of the sweep up rature are powder to produce. Keep programmer of the sweep up rature are powder to race. Keep up rature are powder to race. Keep up rature is feety in Weami, FL 331 ments, P.O. e control and	DRAG s memb smoke, e cts, gum actices. oduct co d humid ansfer. p contain s instrucelding, C 35 and . Box 37 d other s	re cleaning glove and powder, pash all affect as all affec	any spi ss, glass particula ted area PRMA id inhala new gum ks or co d retain a o prever / from ir losed wh the prec Allied F lication a burgh, F autions.	TION ation of v or tobacc smetics w all warning t high hur accompatib en not in autionary processes 2206 (29 A 15250-	apors, gaco, or apprithin the materia use. label on "publish C.F.R. 197954 for	ases, fully cosmoworking this priced by 110), U.S. addition	mes and etics with area. Or ethrough d in Sectoroduct.	duvalent) dus coordance withing and was dusts. Was nin the working therwise follow rred storage in the dew point. ion 10. Ope See America rican Welding nment Printings regarding fire
'.1 '.2	Work & Hygiene Practices: Storage & Handling: Special Precautions:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fedenthoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and usera. Do not store or bring tobe the standards of good industrial. No unusual methods are required a sheltered warm area with tem Static charge may occur during containers slowly on a stable standard Z-49.1, "Sa Society, P. O. Box 351040, Mic Office, Superintendent of Docu and explosion control, exposure. 8. EXPOSURE CONCIDENTIAL NAME(S) NICKEL CHROMIUM #	slip hazarive Equipme sweep up ral regulation of the sweep rad regulation	DRAG s memb smoke, e cts, gum actices. oduct co d humid ansfer. p contain s instruc elding, C 135 and . Box 37 d other s GIH STEL NA NA	BE INFO ranes. Avo rational drink, ch in, food, drini rational and lity control to Keep away ner tightly c ranes and t cutting and OSHA Pub ranes and rational precial rational	any spi ss, glass particula ted area DRMA id inhala new gum ks or co d retain a o prever / from ir losed wh the prec Allied F lication 2 burgh, F autions. AL PF NOHSC ESTEL NF NF	TION ation of vortobaccometics well warning thigh hur been not in autionary Processes 2206 (29 A 15250- ROTEC ES-PEAK NF	apors, gaco, or apprithin the materia use. label on "publish" C.F.R. 197954 for CTION	ases, fully cosmountity label "going als listed by 10), U.S. addition OSHA STEL NA NA	mes and etics with area. Of coduct. the Ames. Governal details	duvalent) dustocordance withing and was dusts. Was nin the working therwise follow rred storage is the dew point, ion 10. Ope See America Welding ment Printing regarding firm
7.1	Work & Hygiene Practices: Storage & Handling: Special Precautions:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fedenthoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and usera. Do not store or bring tobe the standards of good industrial. No unusual methods are required a sheltered warm area with temes static charge may occur during containers slowly on a stable sure Read and understand the man National Standard Z-49.1, "Sa Society, P. O. Box 351040, Mic Office, Superintendent of Document and explosion control, exposure and explosion control, exposure sure the standard sure sure sure sure sure sure sure sure	slip hazarive Equipme sweep up ral regulation of the same properties. See the same properties of the same properti	DRAG s memb smoke, e cts, gum actices. oduct co d humid ansfer. p contain s instruc lding, C l35 and . Box 37 d other s STEL NA NA	re cleaning glove ad powder, pash all affect ranes. Avo rat, drink, chart, food, drinically control to Keep awayner tightly cottons and toutting and OSHA Pub (1954, Pitts special precause). ES-TWA NF (0.5) NF	any spi ss, glass particula ted area DRMA id inhala new gum ks or co d retain a o prever / from ir losed wh the prec Allied F lication 2 burgh, F autions. AL PF NOHSC ESTEL NF NF	TION ation of v or tobaccsmetics which was and te or slag. Remo TION ation of v or tobaccsmetics which hurring thigh hurring thigh hurring thigh hurring the not in autionary processes 2206 (29 PA 15250-ROTEC	apors, gaboo, or apporting the materia use. label on "publish" C.F.R. 197954 for CTION PEL (5.0) (1.0) (10.0)	ases, fully cosmount of the proportion of the pr	mes and etics with area. Or etics with area.	duvalent) dus coordance withing and was dusts. Was nin the working therwise follow rred storage in the dew point. ion 10. Ope See America rican Welding nment Printings regarding fire
'.1 '.2	Work & Hygiene Practices: Storage & Handling: Special Precautions:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fedenthoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and usera. Do not store or bring tobe the standards of good industrial. No unusual methods are required a sheltered warm area with temes static charge may occur during containers slowly on a stable sure Read and understand the man National Standard Z-49.1, "Sa Society, P. O. Box 351040, Mic Office, Superintendent of Document and explosion control, exposure and explosion control, exposure sure sure sure sure sure sure sure	slip hazarive Equipme sweep up ral regulation sweep up ral regulation sweep up ral regulation see. Do not see. Do	DRAG s memb smoke, e cts, gum actices. oduct co d humid ansfer. p contain s instruc elding, C 35 and . Box 37 d other s GH STEL NA NA NA	re cleaning glove ad powder, pash all affect ranes. Avo rate, drink, chart, food, drinically control to Keep awayner tightly cottons and the country of the	any spi ss, glass particula ted area DRMA id inhala new gum ks or co d retain a o prever / from ir losed wh the prec Allied F lication 2 burgh, F autions. AL PF NGHSC ESTEL NF NF NF	TION ation of v or tobaccsmetics which was and te or slag. Remo TION ation of v or tobaccsmetics which have the compatible and the compatible a	apors, gaco, or apprithin the midity and le materia use. label on ," publish C.F.R. 197954 for PEL (5.0) (1.0) (15.0) (15.0)	ases, fully cosm working this priced by b10), U.S. addition OSHA STEL NA NA NA	mes and etics with area. Or etics with area.	uivalent) duscordance withing and was dusts. Was in the working the working the dew point. It is a serican welding ment Printing regarding firm other with the dew point. It is a serican welding ment Printing regarding firm other well as a serican welding ment Printing regarding firm other well as a serican welding ment Printing regarding firm other well as a serican welding ment Printing as a serican welding ment Printing as a serican well
7.1	Work & Hygiene Practices: Storage & Handling: Special Precautions:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fedenthoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and usera. Do not store or bring tobe the standards of good industrial. No unusual methods are required a sheltered warm area with temes static charge may occur during containers slowly on a stable sure Read and understand the man National Standard Z-49.1, "Sa Society, P. O. Box 351040, Mic Office, Superintendent of Document and explosion control, exposure and explosion control, exposure sure the standard sure sure sure sure sure sure sure sure	slip hazarve Equipme sweep up ral regulation sweep up ral regulation sweep up ral regulation see. Do not see control and see. The see control and see control	DRAG s memb smoke, e cts, gum actices. oduct co d humid ansfer. p contain s instruc elding, C 35 and . Box 37 d other s GH STEL NA NA NA NA	re cleaning glove ad powder, pash all affect ranes. Avo rat, drink, chart, food, drinically control to Keep awayner tightly cottons and toutting and OSHA Pub (1954, Pitts special precause). ES-TWA NF (0.5) NF	any spi ss, glass particula ted area DRMA id inhala new gum ks or co d retain a o prever / from ir losed wh the prec Allied F lication 2 burgh, F autions. AL PF NOHSC ESTEL NF NF	TION ation of v or tobaccsmetics which was and te or slag. Remo TION ation of v or tobaccsmetics which hurring thigh hurring thigh hurring thigh hurring the not in autionary processes 2206 (29 PA 15250-ROTEC	apors, gaboo, or apporting the materia use. label on "publish" C.F.R. 197954 for CTION PEL (5.0) (1.0) (10.0)	ases, fully cosmount of the proportion of the pr	mes and etics with area. Or etics with area.	duvalent) dustocordance withing and was dusts. Was nin the working therwise follow rred storage is the dew point, ion 10. Ope See America Welding ment Printing regarding firm
7.1	Work & Hygiene Practices: Storage & Handling: Special Precautions:	Spilled product may produce a appropriate Personal Protective respirator. Carefully vacuum or local, state, provincial and fedenthoroughly before reuse. 7. HANDLING Avoid contact to eyes, skin, a thoroughly after handling and userea. Do not store or bring tobe the standards of good industrial No unusual methods are required a sheltered warm area with tem Static charge may occur during containers slowly on a stable sure Read and understand the man National Standard Z-49.1, "Sa Society, P. O. Box 351040, Mic Office, Superintendent of Document and explosion control, exposure and explosion control, exposure support of the Nickel Chromium # IRON MOLYBDENUM COBALT	slip hazarive Equipme sweep up ral regulation sweep up ral regulation sweep up ral regulation see. Do not see. Do	DRAG s memb smoke, e cts, gum actices. oduct co d humid ansfer. p contain s instruc elding, C 35 and . Box 37 d other s GH STEL NA NA NA	re cleaning glove ad powder, pash all affect ranes. Avo reat, drink, chart, food, drink contained and lity control to Keep awayner tightly cottons and to tutting and OSHA Pub ranes. Pub ranes are recommended by the control of the contained and the contained and lity control to Keep awayner tightly cottons and to tutting and OSHA Pub ranes are recommended.	any spi ss, glass particula ted area DRMA id inhala new gum ks or co d retain a o prever / from ir losed wh the prec Allied F autions. AL PF NOHSC ES- STEL NF NF NF NF NF NA	TION ation of vortobaccommetics was and the or slag. Remove the ortobaccommetics was all warning the ortobaccommetics was all warning the ortobaccommetics and the ortobaccommetics are the ortobaccommetics and the ortobaccommetics are the ortobaccommetics was all warning the ortobaccommetics and the ortobaccommetics was all warning the ortobaccommetics are the ortobaccommetics and the ortobaccommetics are the ortobacco	apors, gaco, or apprithin the midity and le materia use. label on "publish" C.F.R. 197954 for CTION PEL (5.0) (1.0) (15.0) (0.01)	ases, fully cosm working this prined by billo, U.S. addition OSHA STEL NA NA NA NA	mes and etics with area. Or etics. Prefethrough d in Section oduct. The American details in Section of the American details in Section details in Section of the American details in Section detail	uivalent) duscordance withing and was dusts. Was in the working the working the dew point. It is a serican welding ment Printing regarding firm other with the dew point. It is a serican welding ment Printing regarding firm other well as a serican welding ment Printing regarding firm other well as a serican welding ment Printing regarding firm other well as a serican welding ment Printing as a serican welding ment Printing as a serican well



Page 4 of 8 **SDS-0005**

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

SDS Revision: 3.3

SDS Revision Date: 10/21/2024

3.1	Exposure Limits:	EXPOSURE CONTROL	AC			NOHSC			OSHA		OTHER
	ppm (mg/m³)		7.0	J		ES-	ES-				0111211
		CHEMICAL NAME(S)	TLV	STEL	ES-TWA	STEL	PEAK	PEL	STEL	IDLH	
		TITANIUM DIOXIDE	(10)	NA	(10)	NF	NF	(15)	NA	NA	TOTAL DUS
		SILICON	(10.0)	NA	(10.0)	NF	NF	(10.0)	NA	NA	
		BORON *	(10.0)	NA	NF	NF	NF	(15.0)	NA	NA	E
		IRON OXIDE	15	NA	NF (5)	NF	NF	10	NA	NA	FUME
		ZIRCONIUM OXIDE	(5)	NA	(5)	NF	NF	(5)	NA	NA 750	
		MAGNESIUM OXIDE CARBON	(10)	NA	(10)	NF	NF	(15)	NA	750	
		COPPER	(3.5)	NA	NF (4.0)	NF	NF	(3.5)	NA	(1750)	(0.0) FUNE
3.2	Ventilation & Engineering		(1.0)**	NA	(1.0)	NF	NF	(1.0)	NA	NA	(0.2) FUME
3.3	Controls: Respiratory Protection:	Use industrial hygiene monitoring adequate ventilation (e.g., open equipment is available (e.g., sink large quantities of product and prod	doors an , safety s ovide ade	d windo hower, e quate ve	ws, local e ye-wash s ntilation (e	exhaust v station). e.g., local	/entilation) Use in a exhaust v). Ensur chemical entilation	e approp fume ho , fans).	oriate de od whe	econtaminati
	respiratory rividenti.	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 exprespiratory protection is necessive selection of the appropriate respir potential airborne contaminants as	equate v ng and C e worker's nd the e e respira khaust or ary, NIO atory pro	entilation utting pu s breathi quivalent ble fume ventilati SH appi tection (c	blished by ng zone at exposure respirator on does respirator to the contract of the contract respirator to the contract respirator respirator to the contract respirator respira	OSH app the Ame and the ge must co or air su not keep poiratory pator, etc.)	roved resperican Welleneral area ompute to applied responder exposure protection	piratory p ding Soc a, the fun less that pirator w below th should	orotection iety. Keenes and an one. welcome the median welcome the med	i. See ep the gases Keep ling in Where . The	
3.4	Eye Protection:	Wear helmet or use face shield w flash goggles, if necessary, to sl goggles. Wear contact lenses in create a likelihood of injury from prohibited.	ith filter le nield othe combina	ens acco ers. Wea ation with	rding to Al r safety g	NSI Z87. lasses w yewear,	ith UV pro except wh	otective so	side shie contact l	lds or enses	
3.5	Hand Protection:	Wear head, hand and body prote radiation, UV radiation, abrasions prevent shock except for leather give equal performance) are prefe	s, contus if kept dr	ions and	heat stre	ss. Pro	tective clo	thing wil	I not ger	nerally	
3.6	Body Protection:	Wear head, hand and body prote shock. Wear flame resistant ear particular include heat/fire resistant gloves, Wear garments made of leather, oil, grease or solvents) and in go not roll up sleeves or trousers (par	olugs to hold overalls heavywei od repair	eep spa aprons, ght tightl Do not	rks out of sleeves, y woven w wear cloth	ears. Se footwear vool or co	e ANSI Z- , welder's otton. Kee _l	49.1. The spats ar p clothing	e clothing nd head g clean (f	g may cover. ree of	
		9. PHYSICAL	& CH	FMIC	ΔI PR	OPER	TIFS				
.1	Appearance:	Solid wire, silver-grey color	<u> </u>	_14110/	~= 1 1\(\						
.1	Odor:										
		Odorless									
.3	Odor Threshold:	NA									
.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling	NA									
9.7	Range: Flashpoint:										
9.8	Upper/Lower Flammability	NA									
.0	Limits:	NA									
.9	Vapor Pressure:	NA									
.10	Vapor Density:	NA									
.11	Relative Density:	7.2 – 7.8 g/cm ³									
.12	Solubility:										
		NA NA									
9.13	Partition Coefficient (log Pow):	NA NA									
9.14	Autoignition Temperature:	NA									
	Decomposition Temperature:	NA NA									
9.15 9.16 9.17	Viscosity: Other Information:	NA									



Page 5 of 8 SDS-0005

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards SDS Revision: 3.3 SDS Revision Date: 10/21/2024

Пера	ared to Oor IA, AOO, AIVO	SI, NOTISC, WEINIS, GLIS & EU Standards SDS (Revision: 5.5 SDS (Revision Date: 10/21/2024
		10. STABILITY & REACTIVITY
10.1	Stability:	Stable under normal conditions of use (see section 7).
10.2	Hazardous Decomposition	Irritating vapors and toxic gases (e.g., carbon monoxide and carbon dioxide) when burned or during
10.3	Products:	
10.3	Hazardous Polymerization: Conditions to Avoid:	Will not occur.
10.5	Incompatible Substances:	Use or storage near incompatible substances.
10.0	moompatible oubstances.	Strong oxidizing agents, strong acids and bases.
		11. TOXICOLOGICAL INFORMATION
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO
11.2	Toxicity Data:	Toxicity information for particulates (fumes) generated from constituents of this product during welding is provided in this section. This SDS does not provide toxicity information for welding fumes and gases that may originate from sources other than this product (for example from base metal, coatings on base metal, fluxes, and other hazardous substances present in welding area). General Nuisance Dusts: Many of the metal oxides generated as components of welding fume, are considered nuisance dusts (such as oxides of titanium and aluminum), which are essentially nontoxic and chemically nonirritating. Skin contact has shown no problems other than possible drying and mechanical irritation. Eye contact can produce particulate irritation. Excessive inhalation can produce mild pulmonary irritation and possible non-disabling slight fibrosis of the
		Chromium & Chromium Compounds: Where chromium is present in the welding consumable, Chromium III and Chromium VI (hexavalent chromium) may be generated during welding. Short term overexposure to chromium VI can cause irritation of the respiratory system, lung damage and asthma type symptoms. Workers exposed to hexavalent chromium compounds have an excess of lung cancer, and these compounds are required to be listed as carcinogens by OSHA. Absorption through the skin can cause organ system damage, primarily affecting the kidneys and liver. (#) Chromium and its compounds are listed in the current annual report on carcinogens (prepared by the National Toxicology Program). Their presence in this alloy is not believed to present a carcinogenic or any other health hazard due to their relatively low concentration and chemical form. Iron & Iron Compounds: Overexposure to fumes of iron may cause irritation of the respiratory tract. Long term overexposure may result in a benign condition of the lung, called "arc welders lung," or "siderosis," characterized by iron deposits in the lung, or "pigmentation," that is detectible by x-ray, but which generally does not interfere with lung function, and does not progress to permanent scarring (fibrosis) of the lung. Pigmentation of the lungs will clear in time after exposure ceases.
11.3	Acute Toxicity:	See Section 4.4
11.4	Chronic Toxicity:	See Section 4.5
11.5	Suspected Carcinogen:	Nickel is listed as IARC Group 2B (Possibly carcinogenic to humans); NTP15 Group 1 (Known human carcinogen); CA65 (cancer). Titanium Dioxide is listed as IARC Group 2B (Possibly carcinogenic to humans). Chromium 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.
		WARNING! This product can expose you to chemicals including <u>Hexavalent Chromium</u> , <u>Nickel</u> and <u>Cobalt</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.
Ţ	Mutagenicity:	<u>Chromium</u> 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.
	Teratogenicity:	This product is not reported to produce teratogenic effects in humans.
4	Reproductive Toxicity:	Manganese compounds may be associated with reproductive system effects.
11.7	Irritancy of Product:	See Section 4.4
11.8	Biological Exposure Indices:	Consult Occupational Physician for the availability and appropriateness of biological exposure indices (e.g., blood tests,
11.9	Physician Recommendations:	urine tests, etc.).
11.8	i nysician neconinendations:	Treat symptomatically.
		42 FCOLOCICAL INFORMATION
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	There are no specific data available for this product.
12.2 12.3	Effects on Plants & Animals: Effects on Aquatic Life:	There are no specific data available for this product. There are no specific data available for this product.
14.0	Enocia on Aquatic Lile.	There are no specific data available for this product.
		13. DISPOSAL CONSIDERATIONS
12 4	Wasta Disposal:	
13.1 13.2	Waste Disposal: Special Considerations:	Dispose of in accordance with federal, state, provincial or local regulations.
13.2	opecial Considerations:	NA



Other Requirements:

SAFETY DATA SHEET

Page 6 of 8 SDS-0005

Prepared to OSHA ACC ANSI NOHSC WHMIS GHS & FU Standards

SDS Revision: 3.3

SDS Revision Date: 10/21/2024

Prep	ared to OSHA, ACC, ANS	SI, NOHSC, WHMIS, GHS & EU Standards	SDS Revision: 3.3	SDS Revision Date: 10/21/2024
		14. TRANSPORTATION	INFORMATION	
		nber, proper shipping name, hazard class & division, per required by 49 CFR, IATA/ICAO, IMDG and the CTI		h mode of transportation. Additional
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 IN	FORMATION	
15.1	SARA Reporting Requirements:	The following chemicals are listed on the SARA Cobalt, Nickel.	Title III (EPCRA 313 Toxic Ch	nemical List): <u>Chromium, Manganese,</u>
15.2	SARA TPQ:	There are no specific Threshold Planning Quantities	for the components of this prod	duct.
15.3	TSCA Inventory Status:	All chemical substances of this product are listed or	the TSCA inventory or are other	erwise exempt from inventory status.
15.4	CERCLA Reportable Quantity:	Chromium: 2,270 kg (5,000 lbs); Nickel: 45.4 kg (10	0 lbs)	
15.5	Other Federal Requirements:	Manganese (and its compounds), Chromium (and compounds) are listed as Hazardous Air Pollutar compounds), Cobalt (and its compounds) and Nickel Water Act (CWA). Chromium, Copper and Nickel This product does not contain any Class 1 or Class	ts (HAPs). <u>Manganese</u> (and <u>el</u> (and its compounds) are listed are listed as Priority Pollutants	its compounds), <u>Chromium</u> (and its d as Toxic Pollutants under the Clean
15.6	Other Canadian Regulations:	This product has been classified according to the h SDS contains all of the information required by the The following chemicals are listed on the Ingredient	CPR. The components of this	product are listed on the DSL/NDSL.
15.7	State Regulatory Information:	Chromium is found on the following state criteria li Substances List (MA), Michigan Critical Substances Right-to-Know List (NJ), New York Hazardous S Washington Permissible Exposures List (WA). Tital PA. Niobium is found on the following state criteria state criteria lists: FL, MA, MN, NJ, PA, and WA. Silicon Dioxide is found on the following state the following state criteria lists: MA, NJ, and PA. Tu and WA. Magnesium Oxide is found on the following following state criteria lists: fl, MA, MI, MN, NJ, PA, and WA. No other ingredients in this product, present in a co criteria lists: California Proposition 65 (CA65), De List (FL), Massachusetts Hazardous Substances List Substances List (MN) New Jersey Right-to-Know	s List (MI), Minnesota Hazardor Substances List (NY), Pennsy hium Dioxide is found on the following criteria lists: FL, MA, MN, NJ, angsten is listed on the following g state criteria lists: FL, MA, M M M M	us Substances List (MN), New Jersey Ivania Right-to-Know List (PA), and Illowing state criteria lists: MA, NJ, and Manganese is found on the following state criteria lists: MA, MN, PA, and and PA. Zirconium Oxide is found on state criteria list: FL, MA, MN, NJ, PA N, PA and WA. Nickel is listed on the are listed on any of the following state at List (DE), Florida Toxic Substances cances List (MI), Minnesota Hazardous

www.P65Warnings.ca.gov.

Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).

WARNING! This product can expose you to chemicals including <u>Hexavalent Chromium</u>, <u>Nickel</u> and <u>Cobalt</u>, which are known to the State of California to cause cancer or reproductive harm. For more information, go to



Page 7 of 8 SDS-0005

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

SDS Revision: 3.3

SDS Revision Date: 10/21/2024

		16. OTHER INFORMATION
16.1	Other Information:	DANGERI 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 breathe 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 circuits that sustain a welding arc between the electrode and the base plate. The welding arc converts the electrical circuits that sustain a welding arc between the electrode and the base plate. The welding arc converts the electrical energy into a localized, concentrated heat source. The tremendously high temperatures of the arc cause the welding continuous wire and rod electrode (or filler metal, when used as such) to decompose. Electric arc working may create one or more health hazards. Hot
		WARNING! This product can expose you to chemicals including <u>Hexavalent Chromium</u> , <u>Nickel</u> and <u>Cobalt</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



Page 8 of 8 SDS-0005

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

SDS Revision: 3.3

SDS Revision Date: 10/21/2024

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

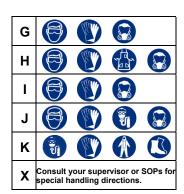
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard				
1	1 Slight Hazard				
2	Moderate Hazard				
3	Severe Hazard				
4	Extreme Hazard				



PERSONAL PROTECTION RATINGS:

Α			
В	(Ely)		
С	(Eller)	TA.	
D	(Eller)	THE STATE OF THE S	
Е	(E)		
F	(Ell)	HA.	





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	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 Slight Hazard		\
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ ~~~~
W	Use No Water	HEALTH 🔪
ох	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

LD50 Lethal Dose (solids & liquids) which kills 50% of the exposed animals LC50 Lethal concentration (gases) which kills 50% of the exposed animal ppm Concentration expressed in parts of material per million parts TD10 Lowest dose to cause a symptom TCL0 Lowest concentration to cause a symptom TD10, LD10, & LD2 or Lowest dose (or concentration) to cause lethal or toxic effects
ppm Concentration expressed in parts of material per million parts TD ₁₀ Lowest dose to cause a symptom TCLo Lowest concentration to cause a symptom
TD _{lo} Lowest dose to cause a symptom TCLo Lowest concentration to cause a symptom
TCLo Lowest concentration to cause a symptom
This I Dis & I Do or I lowest dose (or concentration) to cause lethal or toxic effects
100, 200, a 200 or 2000 (or concentration) to cause lethal or toxic enects
TC, TCo, LCio, & LCo
IARC International Agency for Research on Cancer
NTP National Toxicology Program
RTECS Registry of Toxic Effects of Chemical Substances
BCF Bioconcentration Factor
TL _m Median threshold limit
log Kow or log Koc Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	DOT U.S. Department of Transportation				
TC	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	WGK Wassergefährdungsklassen (German Water Hazard Class)				

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

			\Diamond			(1)		* 2
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment