PREPARED BY DISTRIBUTOR:



A. M. Castle & Co. 3400 N. Wolf Road Franklin Park, IL 60131

MATERIAL SAFETY DATA SHEET

Υ [

November 25, 1985

NEVISED

May 1, 2010

(This product contains one or more toxic chemicals subject to the reporting requirements of section 313 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT of 1985 and of 40CFR72).

For Information or In An Emergency Call: (847) 455-7111

nulacturer's Name			200-2000		
Various				10.00 mg	
duct Name / Trade Name		Common N	lame : Grade Carbo	n Steel i.e. A36, 1018, 1010, 1040	
Carbon Steel - HR & CR Leaded Carbon			Press	ssure Vessel Quality	
			Leade	aded Carbon i.e. 10L42	
ction 2 - Hazardous Ingredients	odeniesky buoj				
OTE: Products Under Normal Conditions Do Not	Represent An Inhalation,	Ingestion or Contact He	ealth Hazard.		
Base Metal, Alloying Elements And Metallic Coatings	CAS#	WT % (1) OS	SHA PEL (mg/g³) (3) A	CGIH TLV TWA (Unless Noted Otherwise) (mg/m²)	
And Watane Ordangs					
Base Metal					
Iron (Fe)	7439-89-6	97-99	10	5 (As Iron Oxide)	
Alloying Elements					
Manganese (Mn)	7439-96-5	<2	5	0.2	
Carbon (C)	7440-44-0	<2	N.E.	3.5 (As Carbon Black)	
Alternatives (All)	7400.00.5	.4	42	10 (Total Duet)	
Aluminum (Al)	7429-90-5	<1	15	i0 (Total Dust)	
Phosphorus (P)	7723-14-0	<1	.1	.1 (Yellow)	
Sulfur (S)	7704-34-9	<1	13	5 (As SO ₂)	
Silicon (Si)	7740-21-3	<1	15	10 (Total Dust)	
Vanadium (V)	7440-62-2	<1	0.5	.05 (As Vanadium Pentoxide Respirable Dust)	
Colombian (Cb)	7440-03-1	<1	N.E.	N.E.	
Bismuth (Bi)	7440-69-9	<1	N.E.	N.E.	
Lead Carbon i.e. 10L42					
Lead (Pb)	7439-92-1	<1	.05	0.05	
		-			
1) % Of Alloying Material Varies With Grade Of Ma	aterial.		96 ACGIH Threshold Li 93 OSHA Permissable		
1) % Of Alloying Material Varies With Grade OI M.	aterial.	(3) 19		Exposure Limit.	
	E-1, (111) 417 PM 1 01 110 E	(3) 19		Exposure Limit.	
ction:3 - Physical Data	E-1, (111) 417 PM 1 01 110 E	(3) 19	93 OSHA Permissable	Exposure Limit.	
ction 3 - Physical Data	E-1, (111) 417 PM 1 01 110 E	(3) 19	93 OSHA Permissable ce and Odor Gray-Black, Oc	Exposure Limit.	
ection 3 - Physical Data (1997) (1997) (Physical Data (1997) (1997) (Physical Data (1997	E-1, (111) 417 PM 1 01 110 E	(3) 19	93 OSHA Permissable ce and Odor Gray-Black, Od gravity	Exposure Limit.	
terial is (Al Normal Conditions) Solid Ring Point (Base Metal) >2500° F	E-1, (111) 417 PM 1 01 110 E	(3) 19	93 OSHA Permissable ce and Odor Gray-Black, Oc	Exposure Limit.	
ection 3 - Physical Data lerial is (Al Normal Conditions) Solid ling Point (Base Metal) >2500° F section 4 - Fire And Explosion	E-1, (111) 417 PM 1 01 110 E	(3) 19	93 OSHA Permissable ce and Odor Gray-Black, Od gravity	Exposure Limit.	
terial is (Al Normal Conditions) Solid Ring Point (Base Metal) >2500° F		(3) 19	93 OSHA Permissable ce and Odor Gray-Black, Od gravity	Exposure Limit.	
terial Is (Al Normal Conditions) Solid Ring Point (Base Metal) >2500° F Soction 4 - Fire And Explosion		(3) 19	93 OSHA Permissable ce and Odor Gray-Black, Od gravity	Exposure Limit.	
ection 3 - Physical Data terial Is (At Normal Conditions) Solid Ring Point (Base Metal) >2500° F action 4 - Fire And Explosion NA		Appearance Specific G	93 OSHA Permissable ce and Odor Gray-Black, Od gravity Approximately	Exposure Limit.	
terial Is (At Normal Conditions) Solid Ring Point (Base Metal) >2500° F Soction 4 - Fire And Explosion Inguishing Media NA social Firefighting Procedures		Appearance Specific G	93 OSHA Permissable ce and Odor Gray-Black, Od gravity Approximately	Exposure Limit.	
terial Is (At Normal Conditions) Solid Ring Point (Base Metal) >2500° F Socion 4 - Fire And Explosion Inguiching Media NA social Firefighting Procedures Steel products in the solid sta		Appearance Specific G	93 OSHA Permissable ce and Odor Gray-Black, Od gravity Approximately	Exposure Limit.	
lerial Is (Al Normal Conditions) Solid Illing Point (Base Metal) >2500° F Section 4 - Fire And Explosion Inguiching Media NA social Firelighting Procedures Steel products in the solid sta usual Fire and Explosion Hazards NA section 5 - Reactivity Data		Appearant Specific G explosion hazard.	93 OSHA Permissable ce and Odor Gray-Black, Oc sravity Approximately	Exposure Limit.	
lerial Is (Al Normal Conditions) Solid Illing Point (Base Metal) >2500° F Section 4 - Fire And Explosion Inguiching Media NA social Firelighting Procedures Steel products in the solid sta	te present no fire or	Appearant Specific G explosion hazard.	93 OSHA Permissable Ce and Odor Gray-Black, Oc stavity Approximately	Exposure Limit. forless 7	
terial Is (At Normal Conditions) Solid Iting Point (Base Metal) >2500° F Section 4 - Fire And Explosion Inguiching Media NA social Firelighting Procedures Steel products in the solid sta usual Fire and Explosion Hazards NA section 5 - Reactivity Data Ibitiy Stable	te present no fire or	Appearant Specific G explosion hazard.	93 OSHA Permissable Ce and Odor Gray-Black, Oc stavity Approximately	Exposure Limit. forless 7	
terial Is (Al Normal Conditions) Solid Iting Point (Base Metal) >2500° F Section 4 - Fire And Explosion NA Social Firelighting Procedures Steel products in the solid sta usual Fire and Explosion Hazards NA Section 5 - Reactivity Data Stable	te present no fire or	Appearant Specific G explosion hazard.	93 OSHA Permissable Ce and Odor Gray-Black, Oc stavity Approximately	Exposure Limit. forless 7	

Product	 	
Carbon		

NOTE: STEEL PRODUCT BURNING, WELD	TS IN THE NATURAL STATE DO NOT PRESI ING, SAWING, BRAZING AND GRINDING M	ENT AN INHALATION, INGESTION O AY RELEASE FUMES AND/OR DUST	R CONTACT HAZARD. HOWEVE S WHICH MAY PRESENT HEALT	R. OPERATIONS SUCH AS H HAZARDS IF TLV'S ARE EXCEEDED
MAJOR EXPOSURE HAZ	ARD			
⊠ Inhalation	PbSkin Contact	Skin Absorption	Eye Contact	PbIngestion
Effects of Overexposure				
freshly forn mouth and Chronic inh	exposure to fumes/dust may produced oxide fumes of iron, mangane irritation of the throat and influent all the concentrations of the	ese and lead may cause me za-like symptoms. iron oxide fumes or dust ma	tal fume fever characteriz	ed by a metallic taste in the
of high con carcinogen	centrations of ferric oxide may po s.	ssibly enhance the risk of to	ing cancer development i	n workers exposed to pulmonary
abdominal	or ingestion of lead particles may cramps, anemia, muscle weakne: NS damage and reproductive effe	ss and headache. Prolonge	mic toxicity. Symptoms o d exposure can cause be	f lead poisoning include havioral changes, kidney
Suspected Cancer Agent?	XNO: This product's ingredients areYES:Federal OSHA			
Emergency and First Aid Pro-	cedures			
If exposed	to excessive levels of metal fume	s, remove to fresh air, seek	medical aid immediately.	
Eyes - Flus	h with water for at least 15 minute	es.		
Section 7 - Spill or L	eak Procedures		Desiral Administration	
Spill or Loak Propodures NA				
Waste Disposal Methods				
According t	o local, state and federal regulation	ons		
Section 8 - Special P	rotection		i ag jida, vidigi (ji sebind	regettetati fotopea vereg
Respiratory NIOSH/MS exposure e	HA - Approved dust and fume, rexceeds TLV's.	spirator should be used to a	void excessive inhalation	of particulates when
Ventiation Local exhat exposure e	ust ventilation should be utilized v xceeds TLV's.	vhen welding, burning, sawi	ng, brazing, grinding or m	achining when
Eye Protection and Protective Safety glass as required	claining ses or goggles should be utilized by the welding standards.	as required by exposure. C	Other protective equipmen	I should be utilized
Section 9 - Special P	recautions			
In welding,	precautions should be taken for a	irborne contaminants which	may originate from comp	ponents of the welding rod.
Arc or spark	cgenerated when welding or burr	ning could be a source of ign	nition for combustible and	flammable materials.
implied, regarding the aci	•			
assume responsibility and	is of handling storage, use and disposal of dexpressly disclaim liability for loss, dama	te of expanse arising out of or in an	and may be beyond our knowled by way connected with the handli	ige. For this and other reasons, we do not

Data sheets of individual manufacturers may be obtained by contacting A. M. Castle & Co., 3400 N. Wolf Road, Franklin Park, IL 60131 Attn: Corp. Safety Mgr.