PREPARED BY DISTRIBUTOR:



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

MATERIAL SAFETY DATA SHEET

icals subject to

November 25, 1985
REVISED 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 1986 and of 40CFR72).

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

	Common N	lama Grado			
	Common N	Irma Grada			
	Common N	lama Grade			
		mile . Giane			
		3XX Series, 4XX Series			
Represent An Inhalation, I	Indestion or Contact He	ealth Hazard.			
CAS#			ACGIH TLV TWA (Unless Noted Otherwise) (mg/m²)		
O/1017	111 10(1) 00	tive ac (ng/g / to)	Additional transferred Contention (1.13m)		
7439-89-6	60-88	10	5 (As Iron Oxide)		
7433.03.0	00-00	10	a (No hall Oxido)		
7440-47-3	10-30	0.5	.5		
			0.5		
7440-02-0	0.21	1	0.3		
7439-96-5	<6	5	0.2		
		-	10 (Insoluble Compound)		
	-		1 (Dust & Mist)		
	-		10 (As Titanium Dioxide)		
7440-02-0	~0	13	To (Its Haman Bloads)		
7440-44-0	~2	NE	3.5 (As Carbon Black)		
			.1 (Yellow)		
			5 (As SO ₂)		
			10 (Total Dust)		
			0.02 (Dust & Fume)		
		1000	N.E.		
			2		
(1) % Of Alloying Material Varies With Grade Of Material.			(2) 1996 ACGIH Threshold Limit Value. (3) 1993 OSHA Permissable Exposure Limit.		
		szan Partis E			
I Market to the second	Appearan	ce and Odor			
		Gray-Black, Odorless			
	Specific G				
		Approximately 7			
		прргодинаю	· · · · · · · · · · · · · · · · · · ·		
e present no fire or	explosion hazard	•			
			3 Marin - 100 Mari		
	Incompata	bility (Materials to Avoid	d)		
		Reacts with	strong acids to produce hydrogen gas.		
			_ , , , , , , ,		
100		7440-47-3 7440-02-0 0-27 7439-96-5 7439-98-7 7440-50-8 7440-32-6 7440-32-6 7440-44-0 2 7723-14-0 2 7740-21-3 2 7440-48-2 2 7440-31-5 Appearance Specific G	7440-47-3 7440-02-0 7439-96-5 7439-98-7 7440-50-8 7440-32-6 7440-44-0 7723-14-0 7704-34-9 7740-21-3 7440-48-2 7440-31-5 7440-31-5 Appearance and Odor Gray-Black, 4 Specific Gravity Incompatability (Materials to Avoic		

Product		
Stainless		
1		

Section	6 - Health Hazard Data		ge seregripes in a contex						
NOTE: S'	TEEL PRODUCTS IN THE N URNING, WELDING, SAWIN	ATURAL STATE DO NOT PRESEI G, BRAZING AND GRINDING MA'	NT AN INHALATION, INGESTION OF Y RELEASE FUMES AND/OR DUSTS	CONTACT HAZARD. HOWEVER WHICH MAY PRESENT HEALTH	R, OPERATIONS SUCH AS I HAZARDS IF TLV'S ARE EXCEEDED				
MAJOR E	XPOSURE HAZARD								
∑lr	halation	Skin Contact	Skin Absorption	Eye Contact	Ingestion				
Effects of C	Overexposure								
	Short term exposure to fumes/dust may produce irritation of eyes and respiratory system. Inhalation of high concentrations of freshly formed oxide fumes of iron, manganese and copper may cause metal fume fever characterized by a metallic taste in the mouth, dryness and irritation of the throat and influenzalike symptoms.								
	of high concentration carcinogens.	ns of ferric oxide may pos	ssibly enhance the risk of lu	ng cancer development in	oconiosis (siderosis). Inhalation n workers exposed to pulmonary				
	Toxicology Program	i (NTP). Exposure to high	re listed in the 3rd Annual F n concentrations of dust and nd possibly cancer of nasal	d fumes can cause sensiti	s prepared by the National zation dermatitis, inflammation				
	Recent epidemiolog cancer.	ical studies of workers me	elting and working alloys co	ntaining nickel/chromium	have found no increased risk of				
Suspected		O: This product's ingredients are n ES:Federal OSHA X							
Emeraency	and First Aid Procedures	ES; Federal OSHA	NTP IARC						
w		sive levels of metal fumes	s, remove to fresh air, seek	medical aid immediately.					
	Eyes - Flush with wa	ater for at least 15 minute	es.						
	7 - Spill or Leak Proce	dures	THE PERSON AND AND ADDRESS.	. ME'NELTER ON BOOK	alany altimateration after				
Spill or Leal	k Procedures NA								
Waste Disp	csal Methods								
	According to local, s	state and federal regulatio	ns		-				
	8 - Special Protection		tilling, egg dept gjaljog	,13年,14年,15日,15日,15日,15日,15日,15日,15日,15日,15日,15日					
Respiratory			spirator should be used to a	void excessive inhalation	of particulates when				
Ventilation	Local exhaust ventill exposure exceeds T		rhen welding, burning, sawir	ng, brazing, grinding or m	achining when				
Eye Protect	ion and Protective Clothing Safety glasses or go as required by the w		as required by exposure. C	other protective equipmen	t should be utilized				
Section	9 - Special Precaution	station in the same		[1] [1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	是的的现在分词在1500万元的基础。				
	In welding, precaution	ons should be taken for a	irborne contaminants which	may originate from comp	conents of the welding rod.				
	Arc or spark genera	ted when welding or burn	iing could be a source of igr	nition for combustible and	flammable materials.				
The information implied, re	mation in this MSDS was of egarding the accuracy or co	otained from sources which we borrectness.	pelieve are reliable. However, the in	nformation is provided without an	ny representation or warranty, express or				
The cond assume r	itions or methods of handling esponsibility and expressly	ng storage, use and disposal of t disclaim liability for loss, damag	the product are beyond our control to get or expense arising out of or in an	and may be beyond our knowled y way connected with the handlir	ge. For this and other reasons, we do not ng, storage, use or disposal of the product.				

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.