## SANDMEYER STEEL COMPANY MATERIAL SAFETY DATA SHEET

Manufacturer's Na	12.6	MARCH 31,
	Sandmeyer Steel Company	(215) 464-7100
Address (number, c	ity, state, & zip code)	
	One Sandmeyer Lane, Philadelphia, PA 19116	
Product Name	Stainless Steels	Chemical Family Steel
Grades	Austenitic, Ferritic, Martensitic, Duplex and Precipitation	
10 7	Hardening Stainless Steels	

	The second secon			
ECTION II – CHEMICAL COMPONENTS	C A S Number	Rnage %	ACGIH TLV	OSHA PEL
Iron (limits for iron oxide fumes)	1309-37-1	40-89	5 mg/m3	10 mg/m3
Nickel	7440-02-0	0-37	1 mg/m3	1 mg/m3
Chromium	7440-47-3	10-27	0.5 mg/m3	1 mg/m3
Manganese (limits for dust)	7439-96-5	0-16	5 mg/m3	5 mg/m3
(limits for fume)			1 mg/m3	1 mg/m 1 mg/m 5 mg/m 1 mg/m 10 mg/n 0.1 mg/n
Molybdenum (limits for dust)	7439-98-7	0-5	10 mg/m3	10 mg/m
Copper (limits for fume)	7440-50-8	0-5	0.2 mg/m3	0.1 mg/m
Silicon (limits for dust)	7440-21-3	0-3	10 mg/m3	10 mg/m3
Tungsten	7440-33-7	0-2	5 mg/m3	5 mg/m3
Aluminum (limits for dust)	7429-90-5	0-2	10 mg/m3	15 mg/m3
(limits for welding fumes)			5 mg/m3	5 mg/m3

## SECTION III - PHYSICAL DATA

Appearance & Odor	Metallic and odorless solid			
Solubility is Water	N/A	Melting Point	2600-2800F	
Vapor Density (Air=1)	N/A	Evaporation Rate (	N/A	
Vapor Pressure (MM HG.)	N/A	Percent Volatile by Volume (%)	N/A	
Balling Point ("F.)	N/A	Specific Grevity (H20.1)	8	

SECTION IV-FIRE AND EXPLOSION HAZARD DATE

Flash Point (Method Used)	N/A	F	emmable Limits	N/A	LEL	UEL
Extinguishing Media	N/A					
Special Fire Fighting Procedures	N/A					
Unusual Fire Explainte Hazarda	N/A					
National Fire Protection Association Rating (NFFA)	Health: 2	Flamn	nability: 0	F	Reactivity: 0	

SECTION V					-			
	eel produc	ts in the n		and the same of th	nt an ir	skin absorption [ nhalation, injecti-	on, or contact	
hazard. H	owever, op	erations s	uch as burn	ing, welding	, sawing	g, brazing or griz	nding may result	n
	_			ermissible lin				
							tute reaction known	
							sed with flu symptor	1111
which come	on a few l	ours after	exposure, D	ermatitis due t	o sensit	ization may occur	in some individual	s.
CHRONIC:	Excessive	and repea	ted overexpo	sure of nickel	and chr	omium can cause v	various forms of	
dermatitis,	inflammatio	on and/or u	lceration of	upper respirate	ry tract	. Both chromium	and nickel have be	en
associated v	with upper	respiratory	cancer. Exc	essive and rep	eated ov	verexposure of iron	n fumes can cause	
siderosis. E	xcessive an	d prolonge	d inhalation o	f manganese fi	imes car	cause bronchitis,	pneumonitis, lack o	f
coordinatio	n. Copper	– pulmona	ry effects.					
ENERGENCY FIS	ST AID PROCE	opures In c	ase of excess	sive exposure,	remove	to fresh air, admir	nister oxygen and s	eek
physician's	assistance.							
								3.55
SECTION V	T DEAC	TIVITY D	ATA		1	7		
EXPOSURE	UNSTABLE	COMDITIONS		N/A				
<b>E</b>			-		-			
INCOMPATIBIL	TY (MATERIAL	S TO AVOID)	N	I/A				
DECOMPOSITION	PRODUCTS		N	I/A				
HAZARDOUS	MAY OCCU	. 0	CONDITIONS TO	AVOID N/A				
POLYMERZATO		3 (22.2)						
SECTION	VII - SPIL	L OR LEA	K PROCED	URES				
STEPS TO BE	TAKEN IN CAS	E MATERIAL 1	S RELEASED OR	SPILLED N/A				
WASTE DISPOS	AL METHOD I	Dispose of i	n accordance	with applical	le feder	ral, state and local	regulations.	
PRECAUTIONS				N/A				
					1			
SECTION	VIII – PER	SONNEL	PROTECTIO	ON INFORM/	TION			
RESPIRATORY	PROTECTION	For weldin	g, burning, g	rinding, and c	utting o	perations, local ex	haust ventilation sl	bluor
						entilation, an appro	opriate NIOSH-	
				excessive inh				55010
GLOVES Glo	ves may be	necessary	to prevent sk	in sensitizatio	n and d	ermatitis.	25-08-25-1-025-028	
EYE PROTECTI	on Approv	ed safety g	lasses or gog	gles should be	worn v	when working with	dusty metals.	22-77-
ON THIS SHE PRESENT DAT OR WARRANTY	ET ARE BELIE E. THE COMP	VED TO BE AC ANY WAKES N OT THERETO A	ATIONS SET PO CURATE AS OF C REPRESENTATI ND DISCLAIMS	THE ION		PREPARED BY: Sandmeyer S	teel Company	