

# MATERIAL SAFETY DATA SHEET

## Filler Metals and Welding Rods

(Approved by U. S. Department of Labor "Essentially Similar" to Form LSB-005-4)

Section I	
Thermacote Welco Company	Emergency Telephone No. 704-739-6421
Address (Number, Street, City, State and ZIP Code) Hwy 161, York Road, Kings Mountain, North Carolina 28086	
Trade Name WELCO 23 - Phos-Bronze Electrode	
AWS Classification - ECuSn-A <sup>+</sup> A5.6	

Section II - HAZARDOUS INGREDIENTS					
COVERING OR FLUX	Wt. % (~)	TLV (Units) MG/M <sup>3</sup>	OTHER	Wt. % (~)	TLV (Units) MG/M <sup>3</sup>
Iron Carbonate	1	-	Core Wire		
Calcium Carbonate	5	-	(SnBz-6)	78	
Barium Carbonate	8	-			
Fluorides of Alkali and earth Alkali Metals	4	2.5			
Silicic Acid	2	-			
Oxides of Alkali Metals	1	-			
Carbon	1	-			

Section III - PHYSICAL DATA
NOT APPLICABLE

Section IV - FIRE AND EXPLOSION HAZARD DATA
NOT APPLICABLE

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	see Section II
EFFECTS OF OVEREXPOSURE	weakness, qualm
EMERGENCY AND FIRST AID PROCEDURES	
expose to fresh air, call doctor	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
none			
HAZARDOUS DECOMPOSITION PRODUCTS			
unknown			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR		
not applicable			

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
WASTE DISPOSAL METHOD	
not applicable	

SECTION VIII - SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECTION (Specify type)		
protective mask or fresh-air mask in narrow rooms or when exceeding TLV		
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER
	yes above all in narrow rooms	yes in closed containers
	yes when exceeding TLV values	
PROTECTIVE GLOVES	yes	EYE PROTECTION
		protective welding glasses
OTHER PROTECTIVE EQUIPMENT		
protective clothing e.g. leather apron, welder helmet		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
OTHER PRECAUTIONS	
electric arc and welding spatters can inflame inflammable materials	