Required by OSHA
OSHA Safety and Health Regulations
for Shipyard Employment (29 CFR 1915)

U.S. Department of Labor
Occupational Safety and Health Administration

OMB No 1218-0074
Expiration Date 05/31/86

Welding Rod #610

Manufacturer's Name: BRANT WELDING ALLOY'S

Emergency Telephone Number: (515) 225-8215

Address (Number, Street, City, State, and ZIP Code): PO. BOX 71 CLIVE, IA. 50053

Chemical Name and Synonyms: NOT APPLICABLE

Trade Name and Synonyms: BRANT ALLOYS # 610

Chemical Family: N/A

Formula: N/A

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents	%	TLV (Units)	Alloys and Metallic Coatings	%	TLV (Units)
Pigments			Base Metal		
Catalyst			Alloys		
Vehicle			Metallic Coatings		
Solvents			Filler Metal Plus Coating or Core Flux		
Additives			Others		
Others					

Hazardous Mixtures of Other Liquids, Solids or Gases

	%	TLV (Units)

Section III - Physical Data

Boiling Point (°F)		Specific Gravity (H_2O=1)	
Vapor Pressure (mm Hg.)		Percent Volatile by Volume (%)	
Vapor Density (AIR=1)		Evaporation Rate _____ =1)	

Solubility in Water: NO

Appearance and Odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	Lel	Uel

Extinguishing Media

Special Fire Fighting Procedures

Unusual Fire and Explosion Hazards

N/A

Section V - Health Hazard Data

Threshold Limit Value
SEE ENCLOSURE

Effects of Overexposure
FAINTNESS POSSIBLE NAUSIA

Emergency First Aid Procedures
REMOVE TO FRESH AIR CALL PHYSICIAN

Section VI - Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable	X	

Incompatability (Materials to Avoid)
NONE

Hazardous Decomposition Products
NONE KNOWN

Hazardous Polymerization			Conditions to Avoid
	May Occur		
	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)
WELD FUME RESPIRATOR OR AIRLINE RESPIRATOR FOR CONFINED SPACE OR WHERE EXPOSURES ARE ABOVE TLV

Ventilation	Local Exhaust	Special
	YES IN CONFINED SPACES	YES INSIDE CONFINED VESSELS
	Mechanical (General) YES WHERE EXPOSURE EXCEEDS TLV	Other

Protective Gloves	Eye Protection
WELDERS PROTECTIVE GLOVES	COLORED ADSORPTIVE LENS

Other Protective Equipment
PROTECTIVE CLOTHING SUCH AS LEATHER APRON

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing

Other Precautions
ARC AND SPARKS COULD BE SOURCE OF IGNITION OF COMBUSTIBLE PRODUCTS

ENCLOSURE TO MATERIAL SAFTY DATA SHEET, SECTION II, on
COVERED ARC WELDING ELECTRODE BRAND (BRANT #610)

Covering Ingredients	Weight %	TLV (Units) mg/m3
Calcium fluoride	3	2,5
Calcium oxide	4	5
Carbon dioxide	4	9.000
Titanium dioxide	2	inert
Silicon dioxide	6	-
Manganese + Molybdenum	2	15
Chromium	4,5	10
Iron oxide	4,5	1
Sodium, potassium-oxide	2	-
Mild steel core wire	68	-