Material Safety Data Sheet
Required under USDL 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

Section I

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:

Trade Name and Synonyms: BRANT ALLOYS # 20FC

Chemical Family: NICKEL SILVER

Formula: Ni Ag

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents	%	TLV (Units)	Alloys and Metallic Coatings	%	TLV (Units)
Pigments: CALCIUM CARBONATE & LIMESTONE INERT			Base Metal: COPPER CORE	36.0	
Catalyst: TITANIUM DIOXIDE	1.5		Alloys: FERROALLOYS	10	
Vehicle: FLOURIDES	2.5		Metallic Coatings: SODIUM & POTASSIUM SILI.	15	
Solvents: MAGNESIUM OXIDE	15		Filler Metal Plus Coating or Core Flux: BORIC ACID FLUX	25.0	
Additives			Others: ZINC	31.0	
Others: IRON OXIDE	10		NICKEL	8.0	

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

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

Copies - C.E.P. Mech Maint - Custodial

Section V - Health Hazard Data

Threshold Limit Value

Effects of Overexposure
SHORT TERM OVEREXPOSURE MAY RESULT IN DIZZINESS AND DRYNESS OR IRRITATION OF NOSE AND OR THROAT

Emergency First Aid Procedures
REMOVE PERSON TO FRESH AIR AND CALL PHYSICIAN

Section VI - Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable	X	

Incompatability (Materials to Avoid) NONE

Hazardous Decomposition Products N/A

Hazardous Polymerization			Conditions to Avoid
	May Occur		
	Will Not Occur	X	

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

Waste Disposal Method

Section VIII - Special Protection Information

Respiratory Protection (Specify Type) REQUIRED

Ventilation		
	Local Exhaust	Special
	Mechanical (General)	Other

Protective Gloves USE GLOVES WHILE WELDING

Eye Protection HELMET OR SHIELDS OR GOGGLES

Other Protective Equipment LEGGINGS - BOOTS - CAPS

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing

Other Precautions