U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
Thermaco-Welco Company	
ADDRESS (Number, Street, City, State, and ZIP Code)	
P. O. Box 681, Hwy. 161 York Road, Kings Mountain, N. C. 28086	
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS CS600
CHEMICAL FAMILY	FORMULA See bottom page

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & 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			Not Applicable		

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H_2O=1)	2.8-3.0
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	Fine Grey Powder - Odorless		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel

EXTINGUISHING MEDIA
Non-Flammable

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE AND EXPLOSION HAZARDS

(Continued on reverse side)

Cu: 7440-47-3 Cr: 7440-47-3 Mo: 7439-98-7 Formula Fe-Ni-Cr-Ni-Cu
Si: 7440-21-3 Fe: 7439-89-6 Ni: 7440-02-0

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 1mg per cubic meter of air

EFFECTS OF OVEREXPOSURE: Nickel bearing dust may irritate the skin. Acute repiratory reaction of conclusive chronic effects from exposure to nickel metal have been observed, but proper industrial hygiene requires maintenance of working atmosphere at concentrations below the recommended TLV. Remove to fresh air, wash eyes and areas of skin contact with copious amounts of clean water.

EMERGENCY AND FIRST AID PROCEDURES

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)*: Reacts with mineral acids to liberate hydrogen

HAZARDOUS DECOMPOSITION PRODUCTS: Evolved hydrogen may become explosive hazard

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ~~Vacuum cleaning is suggested.~~ If sweeping, care should be taken to maintain work area atmosphere below TLV level.

WASTE DISPOSAL METHOD: If product is no longer useful, dispose according to appropriate local regulation.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*: NIOSH-approved Dust Respirator-See Section X

VENTILATION	LOCAL EXHAUST: As required to limit dust exposure	SPECIAL: below TLV
	MECHANICAL *(General)*	OTHER

PROTECTIVE GLOVES: When handling containers and powder

EYE PROTECTION: Suitable protection against powder entering eyes.

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Whenever possible, store metal powders in closed comtainers. AVOID breathing excessive amounts of dust.

OTHER PRECAUTIONS

SECTION X- RESPIRATORY PROTECTION

In an environment where the "Airborne Contaminant Concentration of Nickel is greater than 1.-0 mg per cu meter of air use Wilson Type 1211 respirator OR Mine Safety Appliance Co. Model 45938 OR other NIOSH-aproved equivalent respirator. For high concentration of fumes an/or dust it is suggested that a supplied-air respiratory device be used.