

# 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 Thermacote Welco		EMERGENCY TELEPHONE NO. 704-739-6421
ADDRESS (Number, Street, City, State, and ZIP Code) Hwy 161, York Ed.		
CHEMICAL NAME AND SYNONYMS Kings Men. N.C. 28086	TRADE NAME AND SYNONYMS PAL300	
CHEMICAL FAMILY	FORMULA	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL Mixture of pre-alloyed powders	53	
CATALYST			ALLOYS Tungsten Carbide	47	
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.) Fusion Temp. 1900F	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	NA
VAPOR PRESSURE (mm Hg.) NA	PERCENT, VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1) NA	EVAPORATION RATE (_____ =1)	NA
SOLUBILITY IN WATER Insoluble		
APPEARANCE AND ODOR - Gray Metallic		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) NA	FLAMMABLE LIMITS NA	Let NA	Uel NA
EXTINGUISHING MEDIA Graphite, Dolomite or Sodium Chloride			
SPECIAL FIRE FIGHTING PROCEDURES Do not use water			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

### SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

1 mg per cu meter of air

EFFECTS OF OVEREXPOSURE Nickel bearing dust may irritate the skin. No acute respiratory reaction or conclusion chronic effects, from exposure to nickel metal have been observed, but proper industrial hygiene requires maintenance of working atmosphere at concentrations below the recommended TL

EMERGENCY AND FIRST AID PROCEDURES

Remove to fresh air, wash eyes and areas of skin contact with copious amounts of clean water.

### SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid)

Reacts with mineral acids to liberate hydrogen

HAZARDOUS DECOMPOSITION PRODUCTS

Evolved hydrogen may become explosive hazards.

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

Can be swept and or shoveled up and replaced in original container.

WASTE DISPOSAL METHOD

If product is no longer useful dispose according to appropriate local solid waste ordinances.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)  
NIOSH approved type TC-21-C dust mask

VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER

PROTECTIVE GLOVES	EYE PROTECTION Safety glasses or goggles
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OTHER PROTECTIVE EQUIPMENT

### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Nickel powder should be handled and stored in closed containers.

OTHER PRECAUTIONS

Avoid skin contact.

### SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

350 ppm

EFFECTS OF OVEREXPOSURE

Anesthetic effects-may occur in the range of 500 to 1000 ppm.

EMERGENCY AND FIRST AID PROCEDURES

Eyes & Skin: Flush eyes with plenty of water, for both eyes and skin get medical attention, if irritation or injury develops. Inhalation: If breathing stops give artificial respiration, get medical help, remove to fresh air, keep warm & quiet until removed. Ingestion: Induce vomiting and treat symptomatically.

### SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

STABLE

X

CONDITIONS TO AVOID

Open flames, welding arcs or other high temperature sources which induce thermal decomposition.

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

X

CONDITIONS TO AVOID

### SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Small leaks: Mop up, wipe up, or soak up immediately. Remove to outdoors  
Large spills: Evacuate area, contain liquid, transfer to closed metal containers. Keep out of water supply.

WASTE DISPOSAL METHOD

Send solvent to a reclaimer. In some cases it can be transported to an area where it can be placed on the ground and allowed to evaporate safely. Check local regulations.

### SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

VENTILATION

LOCAL EXHAUST

MECHANICAL (General)

SPECIAL

Limit concentration in air

OTHER to TLV

PROTECTIVE GLOVES

No special protective clothing needed.

EYE-PROTECTION

Safety glasses without side shields.

OTHER PROTECTIVE EQUIPMENT

### SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Handle with reasonable care. Avoid breathing vapors. Store in cool, dry place.

OTHER PRECAUTIONS