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

Form Approved  
OMB No. 44-R1387

299305  
299316

# 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 <i>HAR ADHESIVES</i>		EMERGENCY TELEPHONE NO. <i>216-425-3161</i>
ADDRESS (Number, Street, City, State, and ZIP Code) <i>2288 E. Aurora Road, Twinsburg, OH 44087</i>		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS <i>HAR ADHESIVE PADDING COMPOUND</i>
CHEMICAL FAMILY <i>cas #9003-20-7</i>	FORMULA	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE <i>Polyvinyl Acetate</i>	<i>50</i>	<i>55% sol</i>	METALLIC COATINGS		
<i>Polyvinyl Alcohol</i>	<i>20</i>	<i>12% sol</i>			
SOLVENTS <i>Water</i>	<i>10</i>		FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES <i>Colloids 677</i>	<i>.0001</i>		OTHERS		
OTHERS <i>Acetate of Mercury</i>	<i>.0001</i>		<i>DiButyl Phthallate (Plasticizer)</i>	<i>20</i>	<i>5mg/M<sup>3</sup></i>
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
<i>Contains no solvents - no benzene, etc.</i>					

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	<i>212<sup>0</sup> F</i>	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	<i>1.0</i>
VAPOR PRESSURE (mm Hg.)	<i>N/A</i>	PERCENT VOLATILE BY VOLUME (%)	<i>30%</i>
VAPOR DENSITY (AIR=1)	<i>&gt; 1</i>	EVAPORATION RATE (_____ =1)	<i>Slower</i>
SOLUBILITY IN WATER	<i>Miscible-Dilutable</i>	<i>RED - Food dyes used when necessary</i>	
APPEARANCE AND ODOR	<i>WHITE - Natural odor-slight like vinegar from free acetic acid.</i>		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	<i>None</i>	FLAMMABLE LIMITS	<i>N/A</i>	Lel	Uel
EXTINGUISHING MEDIA	<i>Material is non-flammable. A water based adhesive.</i>				
SPECIAL FIRE FIGHTING PROCEDURES	<i>None</i>				
UNUSUAL FIRE AND EXPLOSION HAZARDS	<i>None</i>				

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	<i>DiButyl Phthallate 5mg/M<sup>3</sup> TWA per ACGIH</i>
EFFECTS OF OVEREXPOSURE	<i>Component resins are FDA approved for use in food packaging industry.</i>
<i>No adverse health effects. No potential health risk. Negative: Carcinogen, Mutagenic, Teratogenic or Neurotoxic.</i>	
EMERGENCY AND FIRST AID PROCEDURES	
<i>Wash off with water. No emergency procedures required. If headache occurs remove to fresh air. Route of exposure: Splash on hands - wash with water. THIS PRODUCT HAS BEEN IN USE FOR OVER 30 YEARS.</i>	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
<i>Caustic - starches</i>			
HAZARDOUS DECOMPOSITION PRODUCTS			
<i>NONE</i>			
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	
<i>Wipe up or mop up. Flush (wash) down drain with water.</i>	
WASTE DISPOSAL METHOD	
<i>Incinerate or landfill per local, state, and Federal regulations.</i>	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
<i>None required</i>			
VENTILATION	LOCAL EXHAUST	<i>Normal usage</i>	SPECIAL
	MECHANICAL (General)	<i>Normal</i>	OTHER
PROTECTIVE GLOVES		EYE PROTECTION	
<i>Not required</i>		<i>Not necessary - glasses are O.K.</i>	
OTHER PROTECTIVE EQUIPMENT			
<i>Apron to protect clothing.</i>			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
<i>Store above 50° F</i>	
OTHER PRECAUTIONS	
<i>None required - use normal good sense in using product - water.</i>	