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U. S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
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: **PUBLICKER INDUSTRIES INC.** 777 W. Putnam Ave. Greenwich, Con. 06830
Emergency Phone: (215) 334-9300 (Phila.)

Address: PLANT: 3223 S. Delaware Avenue, Phila., PA 19148

CHEMICAL NAME AND SYNONYMS SPECIALLY DENATURED ALCOHOL, FORMULA 32	TRADE NAME AND SYNONYMS Alcohol #32
CHEMICAL FAMILY Alcohol, Ether	FORMULA CH₃CH₂OH; CH₃CH₂OCH₂CH₃

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE ETHYL ALCOHOL			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES ETHYL ETHER			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Determination of the physical data for denatured alcohol has not been completed yet. Use data for Anhydrous-					
Ethyl alcohol given below.					

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	173°	SPECIFIC GRAVITY (H ₂ O=1)	0.8160
VAPOR PRESSURE (mm Hg.) @ 68°	44	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	1.59	EVAPORATION RATE (=1)	
SOLUBILITY IN WATER	complete		
APPEARANCE AND ODOR	Clear, colorless liquid; characteristic odor		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Closed cup	48°F	FLAMMABLE LIMITS	LoL	UeL
EXTINGUISHING MEDIA					
SPECIAL FIRE FIGHTING PROCEDURES	CO ₂ or dry chemical extinguisher: large spill, use water spray or alcohol foam				
Water in straight hose stream will scatter & spread fire and should not be used.					
UNUSUAL FIRE AND EXPLOSION HAZARDS	Keep away from heat, spark, and open flame. Keep container closed and in ventilated area. All electrical equipment must be explosion-proof.				

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Probable 400 FPM - Daily 8-hour exposure

EFFECTS OF OVER EXPOSURE Irritation of eyes, nose and throat; Headache and drowsiness may occur.

EMERGENCY AND FIRST AID PROCEDURES Avoid contacting liquid with eyes, skin, clothing. Flush with water in case of contact. Avoid inhalation of vapor. If breathing affected by vapor inhalation, remove to fresh air. Call Physician. Administer oxygen. SPEED IS OF PRIMARY IMPORTANCE.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
		STABLE	

INCOMPATIBILITY (Materials to avoid)

OXIDIZING MATERIALS

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
		WILL NOT OCCUR	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Large spills on ground resulting from container rupture or accident, if not contained by diking, should be generously diluted with water spray. Avoid flushing directly into stream or sewer. Contained spills should be recovered to the extent possible for proper waste disposal.

WASTE DISPOSAL METHOD

If custom disposal service not available, large quantities may be burned in a combustion chamber by a competent Engineer. Small quantities may be poured upon sand or dirt contained by a shallow pan and cautiously burned, local codes permitting.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Where high concentration of vapor exists, all-purpose canister recommended.

VENTILATION	LOCAL EXHAUST	SPECIAL
		From floor and low spaces
	MECHANICAL (General)	OTHER
	Floor mounted fan or blower	Explosion-proof equipment

PROTECTIVE GLOVES

Rubber or other approved material

EYE PROTECTION

CHEMICAL SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Follow State and Municipal Codes as well as requirements of Insurance Carrier.

Consult CHEMICAL SAFETY GUIDES, published by M.C.A.

OTHER PRECAUTIONS

Employees must be well trained in proper handling techniques.

Consult pertinent bulletins published by M.C.A. on MATERIALS HANDLING.