

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TWB-4249 LAMINATING CLEAR
PRODUCT CODE: TWB 4252

HMIS CODES: H F R P
1 1 0 B

=====**SECTION I - MANUFACTURER IDENTIFICATION**=====

MANUFACTURER'S NAME: T. W. GRAPHICS GROUP
ADDRESS: 3323 S. Malt Avenue, City of Commerce, CA 90040
EMERGENCY PHONE: 1-800-424-9300 **INFORMATION PHONE:** (323) 721-1400
DATE PREPARED : 12-01-2002 **NAME OF PREPARER :** Juan R. Madrigal
REASON REVISED : See Section VIII

=====**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**=====

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE		WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	MFR TLV	mm Hg	@ TEMP	
N-Methyl PYRROLIDONE	872-50-4	100 ppm	100 ppm		N/A		10%
Triethylamine	121-44-8	10 ppm			54.0	68F	< 5.0%
Dimethylethanolamine		25 ppm				N/A	< 5.0%
Methyl Alcohol	67-56-1	200 ppm	200 ppm		96.0	68F	< 0.5%

=====**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**=====

BOILING POINT: 212 DEG F **SPECIFIC GRAVITY (H20=1):** 1.0393
VAPOR DENSITY: HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN ETHER
COATING V.O.C.: 1.69 LB/GL (203 GR/LT)
SOLUBILITY IN WATER: Soluble.
APPEARANCE AND ODOR: Milky liquid with mild odor.

=====**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**=====

FLASH POINT: 220 F **METHOD USED:** Pensky-Martens C.C.
FLAMMABLE LIMITS IN AIR BY VOLUME - **LOWER:** 1.3% **UPPER:** 9.5%
EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG
SPECIAL FIREFIGHTING PROCEDURES
Wear self-contained breathing apparatus to protect against hazardous effects of normal combustion or oxygen deficiency.
UNUSUAL FIRE AND EXPLOSION HAZARDS
Will not support combustion unless water has evaporated.

===== SECTION V - REACTIVITY DATA =====

STABILITY: (STABLE CONDITIONS TO AVOID)

None

INCOMPATIBILITY: (MATERIALS TO AVOID)

None

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Normal combustion products as carbon dioxide, carbon monoxide, or oxides of nitrogen.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

=====SECTION VI - HEALTH HAZARD DATA=====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

None currently known.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Overexposure may cause slight skin irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Ingestion may cause slight toxicity, nausea, and narcosis.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Prolonged exposure may cause slight toxicity.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

None currently known.

EMERGENCY AND FIRST AID PROCEDURES**EYE CONTACT:** Immediately flush eyes with running water for at least 15 minutes while holding the eyelids open. If irritation persists, seek medical attention.**SKIN CONTACT:** Wash skin with mild soap and water. If irritation persists, see a physician.**INHALATION:** If there are acute or chronic symptoms, move person to fresh air, give artificial respiration and call a physician.

===== **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE** =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate open flames in the vicinity of spill or released vapor. Stop source of leak. Absorb large spill with absorbent clay or other suitable materials.

WASTE DISPOSAL METHOD

Flocculate liquid wastes. Dispose of residues observing local, state, and federal health, safety, and pollution laws.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store and use in a well-ventilated area.

DO NO USE OR STORE NEAR OPEN FLAME, SPARKS, OR HOT SURFACES.

OTHER PRECAUTIONS

Health Maintenance Identification System (HMIS): H/1, F/0, R/0, P/B.

===== **SECTION VIII - CONTROL MEASURES** =====

RESPIRATORY PROTECTION

If exposure does exceed occupational exposure limits, use a NIOSH approved respirator, or an atmosphere-supplying respirator, or an air-purifying respirator for organic vapors.

VENTILATION

Use adequate ventilation to keep airborne concentration below exposure standards.

PROTECTIVE GLOVES

Use waterproof gloves for direct contact.

EYE PROTECTION

Use chemical safety goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Eyewash fountains, safety showers are recommended.

WORK/HYGIENIC PRACTICES

After use, wash hands thoroughly with soap and water before eating, drinking, or smoking. Launder contaminated clothing.

===== **SECTION IX - DISCLAIMER** =====

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