

**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** WATERBASE RETARDER **HMIS CODES:** H F R P**PRODUCT CODE:** 1821 1 1 0 E**===== SECTION I - MANUFACTURER IDENTIFICATION =====****MANUFACTURER'S NAME:** T. W. GRAPHICS GROUP**ADDRESS:** 7220 East Slauson Avenue, City of Commerce, CA 90400**EMERGENCY PHONE:** 1-800-424-9300 **INFORMATION PHONE:** (323) 721-1400**DATE REVISED :** 08-22-91 **NAME OF PREPARER :** Norma David**===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====**

OCCUPATIONAL EXPOSURE LIMITS VAPOR PRESSURE WEIGHT

HAZARDOUS COMPONENTS CAS NUMBER OSHA PEL ACGIH TLV MFR TLV mm Hg @ TEMP PERCENT

Dipropylene Glycol 25265-71-8 NE NE 0.0 68F 50

+++++ No toxic chemical (s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372 are present. +++++++

**===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====****BOILING POINT:** 449 Deg F **SPECIFIC GRAVITY (H20=1) :** 1.0**VAPOR DENSITY:** HEAVIER THAN AIR **EVAPORATION RATE:** SLOWER THAN ETHER**COATING V. O. C. :** 8.50 LB/GL ( 1019 G/L )**MATERIAL V. O. C. :** 4.21 LB/GL ( 504 G/L )**SOLUBILITY IN WATER:** Very soluble.

**APPEARANCE AND ODOR:** Clear liquid, practically no odor.

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

**FLASH POINT:** None **METHOD USED:** TCC

**FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER:** 8.5% **UPPER:** 1.3%

**EXTINGUISHING MEDIA:** FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

**SPECIAL FIREFIGHTING PROCECURES**

Wear self-contained breathing apparatus and protective clothing to protect against hazardous effects of normal combustion oxygen deficiency.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

No available information.

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

**STABILITY:** STABLE

**CONDITIONS TO AVOID**

Keep away from heat, sparks, and open flame.

**INCOMPATIBILITY (MATERIALS TO AVOID)**

Isolate from oxidizing materials.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Normal combustion byproducts as carbon dioxide, carbon monoxide, aldehydes, acids.

**HAZARDOUS POLYMERIZATION:** *WILL NOT OCCUR*

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

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

High vapor concentration (100 ppm) may cause nasal and respiratory irritations.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Liquid may cause moderate to severe eye irritation and slight to moderate skin irritation.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Liquid may cause slight to moderate skin irritation.

#### **INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Ingestion may produce central nervous system (CNS) depression.

#### **HEALTH HAZARDS (ACUTE AND CHRONIC)**

Slight nasal and respiratory discomfort may occur on exposure to 100 ppm for 5 minutes, becoming more pronounced at 1000 ppm.

**CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO**

#### **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Pre-existing eye, skin, and respiratory disorders may be aggravated by overexposure.

#### **EMERGENCY AND FIRST AID PROCEDURES:**

*EYE CONTACT:* Immediately flush eyes with flowing water for at least 15 minutes while holding the eyelids open. If irritation persists, seek medical attention.

*SKIN CONTACT:* Wash thoroughly with soap and water. If irritation persists, seek medical attention.

*INHALATION:* If there are acute or chronic symptoms, move person to fresh air, give artificial respiration, and call a physician.

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#### **===== 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 vapors. Stop source of leak. Absorb large spills with absorbent clay or other suitable materials.

##### **WASTE DISPOSAL METHOD**

Place contaminated material in disposable containers. Incinerate 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 NOT STORE OR USE NEAR OPEN FLAME, SPARKS OR HOT SURFACES.*

**OTHER PRECAUTIONS:**

Practice to avoid excessive eye and skin exposure.

**===== SECTION VIII - CONTROL MEASURES =====****RESPIRATORY PROTECTION:**

Consult supplier for an approved air-purifying respirator.

**VENTILATION:**

Good general ventilation should be sufficient for most conditions.

**PROTECTIVE GLOVES:**

Use impervious gloves when prolonged or frequently repeated contact occurs.

**EYE PROTECTION:**

Use safety goggles for prolonged exposure.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

Solvent resistant aprons, eyewash fountains, safety showers are recommended.

**WORK/HYGIENIC PRACTICES**

Laundry contaminated clothing before reuse.

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

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*CUSTOMERS ARE ASKED TO CONDUCT TESTS BEFORE USE.*