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M A T E R I A L   S A F E T Y   D A T A   S H E E T  
FOR PRINTING INK AND RELATED MATERIALS

Date of Prep.: 6/26/91

H.M.I.S RATINGS

Supercedes: 6/1/90

Prepared by: W.R. McMILLEN

Minimal----	0	HEALTH	1
Slight----	1	FLAMMABILITY	3
Moderate---	2	REACTIVITY	0
Serious----	3		
Severe----	4		

S E C T I O N   I   --   P R O D U C T   I D E N T I F I C A T I O N   A N D   U S E

Manufacturer's Name: DIAGRAPH CORPORATION      Emergency Telephone #: 618-997-3321

Street address: P.O. BOX 520      City/St/Zip: HERRIN, ILLINOIS, U.S.A 62948

Product Class: MARKER      Product Identification: 0968500

Trade Name: GP-X WHITE MARKER

S E C T I O N   I I   --   H A Z A R D O U S   I N G R E D I E N T S

Ingredient CAS #	Hazard Data:
1.XYLENE  CAS # 1330-20-7	%by wt. 20-40%, TLV 100 PPM LD50 - ORL RAT, 4300 Mg/Kg LC50 - IHL RAT, 6700 PPM/4H
2.PROPYLENE GLYCOL METHYL ETHER  CAS # 107-98-2	%by wt. 0-20%, TLV 100 PPM LD50 - ORL RBT, 8000 Mg/Kg LC50 - IHL GPG, 15000 PPM/7H
3.ETHYL BENZENE  CAS # 100-41-4	%by wt. 0-20%, TLV 100 PPM LD50 - ORL RAT, 3500 Mg/Kg LC50 - IHL RAT, 4000 PPM/4H

\*\* NOTES \*\*

THIS PRODUCT CONTAINS NO CARCINOGENS OR REPRODUCTIVE TOXIC CHEMICALS AS LISTED BY NTP, IARC, OR OSHA. THIS PRODUCT CONTAINS NO HALOGENS OR SULFUR COMPONENTS.  
XYLENE AND ETHYL BENZENE ARE LISTED ON SARA TITLE III, SECTION 313 TOXIC CHEMICAL LIST.

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S E C T I O N    I I I            --            P H Y S I C A L    D A T A

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Boiling pt. (F/C) :    230 F / 109 C Color:            SOLVENT Freezing pt. (F/C):    UNKNOWN ID:                UNKNOWN Evap. rate: vs. Butyl    SLOWER Acetate (fast/slow): Percent Volatile Wt.:    42%	Vapor Density (H/L): HIGHER vs. air Appearance:    WHITE LIQUID INK Vapor Pressure: UNKNOWN (mm Hg) Specific Gravity: 1.272 Liquid Density:            HEAVIER vs. water Coeff. Water/                UNKNOWN Oil Distribution:
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S E C T I O N    I V            --            F I R E    &    E X P L O S I O N    D A T A

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Can hazardous polymerization occur? NO            Flammability (Y/N): YES  
 If yes, under what conditions: A VAPOR ACCUMULATION WILL FLASH AND OR EXPLODE IF IGNITED

Means of Extinction: Foam - X Alcohol Foam -            CO2 - X Dry Chemical - X            Water Fog - Other -	Flashpoint (F/C)            70 F / 21 C (Closed Cup Method)
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Explosion Sensitive to impact: NO	--- Flammable Limit --- % by volume Upper :    UNKNOWN    Lower :    1.0
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Classification: DOT: FLAMMABLE OSHA: FLAMMABLE IB	Hazardous Combustion Products: CO2, CO, HYDROCARBONS
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Autoignition temp:            UNKNOWN	Sensitivity to Static    YES Discharge:
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Special Firefighting Procedures:  
 A STRAIGHT STREAM OF WATER COULD SPREAD FIRE

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S E C T I O N    V            --            H E A L T H    H A Z A R D    D A T A

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Primary Route of Entry:  
 Dermal - X                            Eye Contact - X                            Inhalation - X                            Ingestion -

Effects of exposure to product:

Skin:                            MAY CAUSE DERMATITIS AND IRRITATION  
 Eye:                            MAY CAUSE REDNESS, BLURRED VISION, IRRITATION, DIZZINESS AND FATIGUE  
 Inhalation:                    MAY CAUSE VOMITING, NAUSEA, IRRITATION  
 Swallowing:                    LARGE CONCENTRATIONS MAY BE FATAL  
 Overexposure:                MAY CAUSE KIDNEY AND LIVER DAMAGE

Exposure Limits:    100 PPM	Irritancy: YES	Carcinogen: NO
Sensitization    NO to Product:	Mutageny: NO	Reproductive NO Toxicity:
Teratogeny:    NO	Synergistic Products:    NO	

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Emergency First Aid Procedures:

Skin: WASH WITH SOAP AND WATER  
Eyes: FLUSH WITH WATER FOR 15 MINUTES, CALL PHYSICIAN  
Inhalation: PROVIDE FRESH AIR AND REST, CALL PHYSICIAN  
Ingestion: IS SWALLOWED, DO NOT INDUCE VOMITING, CALL PHYSICIAN  
Other: CALL PHYSICIAN

SECTION VI -- REACTIVITY DATA

Chemically Stable?: YES  
If no, describe conditions to avoid? NONE

Incompatibility with other substances: YES  
If yes, which ones? STRONG OXIDIZING AGENTS

Reactivity, and under which conditions?  
AVOID OPEN SPARKS AND FLAMES

Hazardous Decomposition Products:  
CO<sub>2</sub>, CO, HYDROCARBONS

SECTION VII -- SPECIAL PROTECTION INFORMATION

Pers. Protection: Eye: RECOMMENDED      Gloves: RECOMMENDED - NON-ABSORBENT  
Respirator: RECOMMENDED - ORGANIC VAPOR      Footwear: RECOMMENDED - OIL RESISTANT  
Clothing: USE AS NEEDED      Other: (Specify) None

Ventilation:  
NEEDED TO KEEP VAPOR CONCENTRATION BELOW T.L.V. LEVEL.

SECTION VIII -- SPECIAL PRECAUTIONS

Procedure when material spilled or released:  
REMOVE ALL SOURCES OF IGNITION. ABSORB ON INERT MATERIAL.

Disposal Method:  
COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS

Special Shipping Information:  
COMPLY TO THE TITLE 49 TRANSPORTATION CODE OF FEDERAL REGULATIONS

Storing and Handling:  
STORE IN COOL, DRY PLACE AWAY FROM ALL SOURCES OF IGNITION

Other:  
ALL COMPONENTS OF THIS PRODUCT ARE LISTED IN THE EPA'S INVENTORY OF CHEMICAL SUBSTANCES AS REQUIRED UNDER THE TOXIC SUBSTANCES CONTROL ACT (TSCA)