

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

11/20/93	H.M.I.S RATINGS	-----
-----	Minimal----0	HEALTH
6/26/91	Slight----1	-----
-----	Moderate---2	FLAMMABILITY
by: PETER GIMSE	Serious----3	-----
-----	Severe----4	REACTIVITY

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

Manufacturer's Name: DIAGRAPH CORPORATION Emergency Telephone #: 618-99
 Address: P.O. BOX 520 City/St/Zip: HERRIN, ILLINOIS, U.S.A
 Substance: INK Product Identification: 13005
 S-1 BLACK R.I.O INK

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

	Hazard Data:
4-HYDROXY, 4-METHYL -42-2	%by wt. 40-60%, TLV 50 PPM LD50 - ORL RAT, 4000 Mg/Kg LC50 - UNKNOWN
GLYCOL METHYL ETHER -98-2	%by wt. 20-40%, TLV 100 PPM LD50 - ORL RBT, 8000 Mg/Kg LC50 - IHL GPG, 15000 PPM/7H
NE GLYCOL N-BUTYL ETHER 11-28-2	%by wt. 0-20%, TLV UNKNOWN LD50 - ORL RAT, 2000 Mg/Kg LC50 - UNKNOWN

** NOTES **

THIS PRODUCT CONTAINS NO CARCINOGENS OR REPRODUCTIVE TOXIC CHEMICALS AS
 DEFINED BY IARC, OR OSHA. THIS PRODUCT MEETS THE CONEG LEGISLATION.

IT IS LISTED ON SARA TITLE III, SECTION 313 TOXIC CHEMICAL LIST

S E C T I O N III

PHYSICAL DATA

pt. (F/C) : 180 F / 82 C

 SOLVENT

 pt. (F/C): UNKNOWN

 UNKNOWN

 : vs. Butyl SLOWER
 (fast/slow): -----
 Volatile Wt.: 57.4%

Vapor Density (H/L): HIGHER
 vs. air -----
 Appearance: BLACK LIQUID

 Vapor Pressure: UNKNOWN
 (mm Hg) -----
 Specific Gravity: .9984

 Liquid Density: LIGHTER
 vs. water -----
 Coeff. Water/ UNKNOWN
 Oil Distribution: -----

S E C T I O N IV

FIRE & EXPLOSION DATA

ous polymerization occur? NO
 Under what conditions: A VAPOR ACCUMULATION WILL FLASH AND OR EXPLODE
 D

Flammability (Y/N): YES

Extinction: Foam -
 foam - X CO2 - X
 cal - X Water Fog -

Flashpoint (F/C) 97 F / 36 C
 (Closed Cup Method) -----

Sensitive to impact:

--- Flammable Limit ---
 % by volume
 Upper : UNKNOWN Lower : .9

ation: DOT: FLAMMABLE
 OSHA: FLAMMABLE IC

Hazardous Combustion Products:
 CO2, CO, HYDROCARBONS

ion temp: UNKNOWN

Sensitivity to Static YES
 Discharge: -----

Firefighting Procedures:
 STRAIGHT STREAM OF WATER COULD SPREAD FIRE

S E C T I O N V

HEALTH HAZARD DATA

Route of Entry:
 X Eye Contact - X

Inhalation - X Ingestion -

of exposure to product:
 MAY CAUSE DERMATITIS AND IRRITATION
 MAY CAUSE IRRITATION AND BLURRED VISION
 MAY CAUSE IRRITATION, DIZZINESS, FATIGUE, VOMITING, DIARRHEA
 MAY CAUSE VOMITING, IRRITATION, AND NAUSEA
 MAY CAUSE LIVER AND KIDNEY DAMAGE

Limits: 50 PPM

 ion NO

 ct: -----

 y: NO

Irritancy: YES

 Mutageny: NO

 Synergistic Products: NO

Carcinogen: NO

 Reproductive NO

 Toxicity: -----

Emergency First Aid Procedures:

WASH WITH SOAP AND WATER
FLUSH WITH WATER FOR 15 MIN, CALL PHYSICIAN

Aspiration: PROVIDE FRESH AIR AND REST, CALL PHYSICIAN

Ingestion: DRINK SEVERAL GLASSES OF WATER, DO NOT INDUCE VOMITING

Eye Contact: CALL PHYSICIAN

SECTION VI -- REACTIVITY DATA

Stability: Stable? YES
Under what conditions, describe conditions to avoid? NONE

Compatibility with other substances: YES
List those with which it is incompatible, and which ones? STRONG OXIDIZING AGENTS AND CAUSTIC MATERIALS

Reactivity, and under which conditions?
Hazardous under conditions: OPEN FLAMES AND SPARKS

Hazardous Decomposition Products:
List those which are expected, and under what conditions: CO, HYDROCARBONS

SECTION VII -- SPECIAL PROTECTION INFORMATION

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

Special Precautions:
List those which are necessary to protect against the hazards of the material: KEPT TO KEEP VAPOR CONCENTRATION BELOW T.L.V. LEVEL.

SECTION VIII -- SPECIAL PRECAUTIONS

Spill or Leak Procedure when material spilled or released:
List those which are necessary to protect against the hazards of the material: REMOVE ALL SOURCES OF IGNITION. ABSORB ON INERT MATERIAL.

Regulatory Method:
List those which are necessary to protect against the hazards of the material: COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS

Shipping Information:
List those which are necessary to protect against the hazards of the material: COMPLY TO THE TITLE 49 TRANSPORTATION CODE OF FEDERAL REGULATIONS

Storage and Handling:
List those which are necessary to protect against the hazards of the material: STORE IN COOL, DRY PLACE AWAY FROM ALL SOURCES OF IGNITION

Other Information:
List those which are necessary to protect against the hazards of the material: COMPONENTS OF THIS PRODUCT ARE LISTED IN THE EPA'S INVENTORY OF CHEMICALS OF CONCERN AS REQUIRED UNDER THE TOXIC SUBSTANCES CONTROL ACT (TSCA)