

# MATERIAL SAFETY DATA SHEET

## INK (WATERBASE) - FOR RECORDER PENS & PLOTTER PENS

### MANUF. ID: INK TYPE "Z" L1/51

#### SECTION I - IDENTIFICATION

COMPANY Dia-Nielsen USA Inc., 41 TWOSOME DRIVE UNIT 5, MOORESTOWN, NJ 08057-0865  
 EMERGENCY PHONE NUMBER (856)642-9700  
 EFFECTIVE DATE APRIL 1988  
 REVISED DATE FEBRUARY 2007  
 CHEMICAL NAME Mixture  
 TRADE NAME "Z" - L1/51 all colors  
 CHEMICAL FAMILY Mixture of water, Glycols and Watersoluable dyes  
 CHEMICAL FORMULA N/A

#### SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	HAZARDOUS %	TLV (UNITS)	PROD. CAS #
Ethylene Glycol	10-12%		107 - 21 -1

#### SECTION III - PHYSICAL DATA

BOILING POINT (F) Similar to water  
 FREEZING POINT (F) Below 0 Degree Fahrenheit  
 VOLATILITY / VOL (%) Similar to water  
 MELTING POINT Liquid at 70 Degrees Fahrenheit  
 VAPOR PRESSURE Slightly less than water  
 VAPOR DENSITY (AIR = 1) Similar to water  
 SOLUBILITY IN H2O 100%  
 APPEARANCE / ODOR Colored liquid; low odor  
 SPECIFIC GRAVITY (H2O = 1) 1.1 to 1.2  
 EVAPORATION RATE Similar to water  
 PH 3.0 to 10.0

#### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT None  
 LOWER FLAME LIMIT Not flammable  
 HIGHER FLAME LIMIT Not flammable  
 EXTINGUISH MEDIA N/A

FOR FIRE N/A

UNUSUAL FIRE HAZARD None

#### SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE None has been established for the mixture

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OVER EXPOSURE EFFECTS Unknown

FIRST AID PROCEDURES Eyes; Flush with water for 15 minutes, if persists get medical attention;  
Skin; Wash with soap and water.

## SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable

CONDITIONS TO AVOID Do not heat beyond 200 Degree Fahrenheit

INCOMPATIBLE MATERIALS None

DECOMPOSITION PRODUCTS Thermal decomposition may product ethyl alcohol and/or carbon dioxide

HAZARDOUS POLYMERIZATION None

CONDITIONS TO AVOID N/A

## SECTION VII - SPRILL OR LEAK PROCEDURE

FOR SPILL Soak up and place in waste disposal container - Flush area with water.

WASTE DISPOSAL METHOD Disposal to be made in conjunction with federal, state and local regulations.

## SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION None required

VENTILATION Local exhaust

PROTECTIVE GLOVES Rubber to protect skin from stain

EYE PROTECTION Safety gasses are recommended

OTHER PROTECTIVE EQUIPMENT None

HANDLING AND STORAGE Store in cool dry area; avoid freezing

OTHER PRECAUTIONS None

PREPARED BY: **RICK TILLINGHAST**