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MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

TRADE NAME: Water Based Pigment Ink (Color: Black)
 MANUFACTURER'S NAME: SHINTOH CHEMIFA INDUSTRY
 ADDRESS: 2-14, 8-Chome, Higashi Imazato, Higashinari-ku,
 Osaka 537-001, Japan
 Tel: 06-6971-9996

DATE PREPARED: December 22, 2000

Director: T. Totaka

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II. HAZARDOUS INGREDIENTS

Ink Base Components:

Pigment Black	35.00%
Glycerin	18.00%
MEG	10.00%
Halogenide Nitrogen Sulfur Compound	0.50%
Active Agent	0.50%
Acrylic Ester Copolymer	15.00%

III. PHYSICAL PROPERTIES

VAPOR DENSITY:
 SPECIFIC GRAVITY: Approx. 1.1
 SOLUBILITY IN WATER: Approx. 100%
 VAPOR PRESSURE:
 APPEARANCE AND ODOR: Aqueous Solution
 MELTING POINT:
 BOILING POINT: Approx. 100°C
 EVAPORATION RATE:

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IV. FIRE AND EXPLOSION

FLASH POINT: None
 FLAMMABLE LIMITS IN AIR: Nonflammable
 FIRE EXTINGUISHING MATERIALS: Water Spray, Carbon Dioxide, and Foam
 SPECIAL FIREFIGHTING PROCEDURES: This is nonflammable.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: There is no danger of occurring fire and explosion.

V. HEALTH HAZARD INFORMATION

INHALED: No Data
CONTACT WITH SKIN OR EYES: No Data
ABSORBED THROUGH SKIN: No Data
SWALLOWED: No Data

HEALTH HAZARDS (ACUTE AND CHRONIC):

FIRST AID / EMERGENCY PROCEDURES:

EYE CONTACT: Wash eyes with full of water. See a doctor when necessary.
SKIN CONTACT: Wash with soap and water when skin irritation occurs.
INHALED: Gargle immediately. See a doctor when necessary.
SWALLOWED: Vomit and see a doctor.

SUSPECTED CANCER AGENT:

VI. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY (Materials to avoid):
HAZARDOUS DECOMPOSITION PRODUCTS (Including combustion products):
HAZARDOUS POLYMERIZATION:

VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL RESPONSE PROCEDURE: Wipe well with dried cloth. When spilling in large space, surround it by fill to collect all.
PREPARE WASTES FOR DISPOSAL

VIII. SPECIAL HANDLING INFORMATION

VENTILATION: No regulation
RESPIRATORY PROTECTION: Protection Mask
EYE PROTECTION: Safety Glasses
GLOVES: Rubber Gloves
OTHER CLOTHING AND EQUIPMENT: None
WORK PRACTICES, HYGIENIC PRACTICES:
OTHER HANDLING AND STORAGE REQUIREMENTS: Keep in well-ventilated indoor storehouse.

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