

**SAFETY DATA SHEET**

According to EC Directive 91/155/EEC

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**Trade name: #4800 LE PEN FLEX INK/ALL COLORS**

Serial No. 190312

Revision Date

Mar.12.2019

Version 1.1

Print Date

Mar.19.2019

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Identification of the product**

Product name : #4800 LePen Flex Ink

**Company/undertaking identification**

Company : UCHIDA OF AMERICA, CORP.  
 3535 DEL AMO BLVD., TORRANCE, CA 90503

Telephone : (800)541-5877

Telefax : (800)229-7017

**Use of the substance/preparation**

: For markers.

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS#	Content (wt%)
C. I. Pigment		5.0 to 10.0
Isopropyl alcohol		0.0 to 2.0
Ethylene glycol		5.0 to 10.0
2-(2-Butoxyethoxy)ethanol		1.0 to 2.0
Glycerin		5.0 to 20.0
Nonionic Surfactant (Not contain Nonyl phenol)		3.0 to 8.0
Purified Water		residual part

**3. HAZARDS IDENTIFICATION**

Not applicable.

**4. FIRST AID MEASURES****Inhalation**

Using high-boiling ink, the vapor is low and damages by inhalation are substantially negligible.

**Skin contact**

Immediately rinse through with soap and water.

Stains of skin with these inks are somewhat difficult to remove.

So, attention may be paid not to stain the skin.

**Eye contact**

Immediately rinse the stained eye with plenty of water, and call on a physician.

**Ingestion**

They may be discarded the same as ordinary waste.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water spray, foam, powder, and carbon dioxide.

**Specific hazards during fire fighting**

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Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

**Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear suitable clothing and gloves.

**Environmental precautions**

At room temperature, no volatile materials are present in these inks.

**Methods for cleaning up**

Wipe the material with cloth and wash water.

**7. HANDLING AND STORAGE****Handling**

Wear suitable protective clothing and gloves.

**Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

**Hand protection**

protective gloves

**Eye protection**

safety glasses with side-shields

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form liquid

Colour coloured

Odour weak

**Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.1 to 1.3 g/cm<sup>3</sup>

Volatile 40 to 60 %

**10. STABILITY AND REACTIVITY****Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

**Hazardous reactions**

No.

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

The main components of this ink are pigments, ethylene glycol, resins and several additives.

Nearly these pigments are believed to be non-toxic, but much ingestion of ethylene glycol causes some damage to kidney. It is oxidized in vivo in to oxalic acid and water insoluble Ca-oxalate may be formed in kidney.

**12. ECOLOGICAL INFORMATION****Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

**Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

**13. DISPOSAL CONSIDERATIONS****Product**

Disposal according to local authority regulations.

**Packaging**

Disposal according to local authority regulations.

**14. TRANSPORT INFORMATION**

Not available.

**15. REGULATORY INFORMATION**

Not available.

**16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.