

# Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

## 1. Product and Company Identification

Product Name	: Textile Pigment Ink TP250 Yellow
Product Code	: SPC-0730Y-1
General Use	: Inkjet printing ink
Product Description	: Pigment ink
MSDS Number	:031-37W25YP
Manufacture	
Company Name	: Mimaki Engineering Co., Ltd
Address	: 2182-3 Otsu, Shigeno, Tomi-shi, Nagano 389-0512 Japan
Telephone No.	: +81-268-64-2413
Importer/Distributor Established in USA	
Company Name	: MIMAKI USA. INC.
Address	: 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A
Telephone No.	: 1-678-730-0100
Emergency Telephone No.	: +81-268-64-2413

## 2. Hazards Identification

Potential Health Effects	: Potential routes of overexposure to this product are skin contact, eye contact and inhalation of vapor. Ingestion is not expected to be a significant route of exposure for this product under normal use conditions. There is no toxicity data available for this specific formulation. Any potential hazards are presumed to be due to exposure to the components.
Inhalation	: At room temperature, vapors are minimal due to physical properties. If heated or sprayed as an aerosol, airborne material may cause upper respiratory irritation.
Eye Contact	: May cause slight transient (temporary) eye irritation. Comeal injury is unlikely.
Skin Contact	: Prolonged or repeated exposure not likely to cause significant skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

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- Ingestion : Single dose oral toxicity is considered to be extremely low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amount larger than that may cause injury. Signs and symptoms of excessive exposure may be central nervous system effects and increased blood sugar levels.
- Carcinogens : Did not cause cancer in long-term animal studies.

### 3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Water	45-82	7732-18-5	H <sub>2</sub> O
2	Humectant	10-20	Trade Secret	Trade Secret
3	Polymers	5-15	Trade Secret	Trade Secret
4	Dipropylene Glycol Methyl Ether	1-5	34590-94-8	C <sub>7</sub> H <sub>16</sub> O <sub>3</sub>
5	Yellow Pigment	1-5	Trade Secret	Trade Secret
6	*Ethylene Glycol	1-10	107-21-1	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>

\* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

### 4. First Aid Measures

- Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- Eye Contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
- Skin Contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Consult a physician. Wash contaminated clothing before reuse.
- Ingestion : Ingestion is not an expected route of exposure during normal use of the product. If ingested, consult a physician.

### 5. Fire Fighting Measures

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Flammable Properties	: Flash Point	: >93.3 degree C
	Method	: Closed Cup
	Approximate Flammable Limits in Air, % by Volume	
	LEL	: 3.2
	UEL	: 15.3
	Autoignition Temperature	: 398 degree C

Product is nonflammable water-based solution.

Hazardous combustion products (gases/vapors) produced in fire can include carbon monoxide, carbon dioxide, nitrogen oxides and smoke.

Extinguishing Media	: Use media appropriate for surrounding material.
Fire Fighting Instructions	: This product is not flammable. Use normal firefighting procedures for the area.

## 6. Accidental Release Measures

Safeguards (Personnel)	: Note: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.
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## 7. Handling And Storage

Handling	: Avoid contact with eyes, skin, or clothing.
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## 8. Exposure Controls / Personal Protection

Exposure limit

HUMECTANT

PEL(OSHA)	: 5mg/m <sup>3</sup> , 8Hr TWA(mist, respirable fraction) 15mg/m <sup>3</sup> , 8Hr TWA(mist total dust)
TLV (ACGIH)	: 10mg/m <sup>3</sup> , 8Hr TWA(mist)
LD50(rat, oral)	: >17,000mg/kg
LC50	: >4.9mg/liter

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(rat, inhalation/4hr)

### DIPROPYLENE

#### GLYCOL

#### METHYL ETHER

PEL(OSHA) : 100ppm, 600mg/m<sup>3</sup>, 8Hr TWA, skin

TLV(ACGIH) : 100ppm, 8Hr TWA, skin

STEL 150ppm

IEL(2000/39/EC) : 50ppm, 308mg/m<sup>3</sup>

LD50(rat, oral) : 5,350mg/kg

LD50(rabbit, dermal) : 9,500mg/kg

LC50(rat,inhalation/4hr) : No data available

### ETHYLENE GLYCOL

PEL(OSHA) : None Established

TLV(ACGIH) : Ceiling: 100mg/m<sup>3</sup>, aerosolIEL(2000/39/EC) : 52mg/m<sup>3</sup>, 20ppm, skinSTEL 104mg/m<sup>3</sup>, 40ppm

LD50(rat, oral) : 4,700mg/kg

LD50(rabbit, dermal) : 9,530uL/kg

LC50(rat,inhalation/4hr) : >200mg/m<sup>3</sup>

### TRIETHYLENE

#### GLYCOL MONOBUTYL

#### ETHER

PEL(OSHA) : None Established

TLV(ACGIH) : None Established

LD50(rat, oral) : 5,300mg/kg

LD50(rabbit, dermal) : 3,540uL/kg

LC50(rat,inhalation/4hr) : No data available

### YELLOW PIGMENT

PEL(OSHA) : None Established

TLV(ACGIH) : None Established

LD50(rat, oral) : &gt;5,000mg/kg

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LC50(rat,inhalation/4hr) : No data available

### Exposure Controls

#### Occupational Exposure Controls

##### Personal Protection

Respiratory : Respirators are not needed for normal use.

##### Protection

Eye Protection : Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of the material.



Skin Protection : If there is potential for significant dermal contact wear appropriate impervious clothing and gloves.



## 9. Physical And Chemical Properties

Appearance	- Physical state	: liquid
	- Color	: Yellow
Odor		: Slight
pH		: 7-9
Flash Point		: >93.3 degree C
Specific Gravity		: 1.0-1.1
Water solubility		: Miscible
Viscosity		: 4-7 cp

## 10. Stability And Reactivity

Chemical Stability	: Stable at normal temperatures and storage conditions.
Incompatibility with	: None reasonably foreseeable.

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Other Materials

Decomposition : Decomposition does not occur during normal use.

Polymerization : Polymerization will not occur.

## 11. Toxicological Information

Animal Data : No data available for product.

## 12. Ecological Information

Ecotoxicological information : No data available for product.

## 13. Disposal Considerations

Comply with all USA, national and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

## 14. Transport Information

Us Department of Transportation (DOT): Not regulated

ICAO/IATA(Air) : Not regulated

IMO/IMDG(Ocean) : Not regulated

## 15. Regulatory Information

### U.S. Regulation

Federal Regulations

TSCA Inventory Status- All components of this product are listed, or exempt from listing, on the TSCA 8(b) chemical inventory

TSCA Section 12(b) Export Notification - This product can contain:



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Dipropylene glycol methyl ether (34590-94-8) : 1-5%  
Tetrahydrofuran (109-99-9) : <0.09%

### State Regulations

State Right - To - Know

WARNING – SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM (California Proposition 65)

Ethylene Oxide (75-21-8) : <0.5ppm

The above are trace impurities that can occur in the product.

### Canada

Canadian Environmental Protection Act (CEPA) – All components of this product are listed on the Canadian Domestic Substances List (DSL) or have been notified.

WHMIS Hazard Classification – The Canadian Workplace Hazardous Materials Information System (WHMIS) classification for this product is:

Ink cartridge – Exempt (Manufactured Article)

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## 16. Other Information

### HMIS Rating

Health : 1  
Flammability : 1  
Reactivity : 0

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.

### Revision history



Product Name: Textile Pigment Ink TP250

Yellow

MSDS No.031-37W25YP

First issue: Oct 1, 2011

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Version	Date	Content
1.0	Oct 1, 2011	First issue