



Product Identifier: TP410 Light Black  
SDS No. 037-W577812  
First issue: 2023/12/11  
Revised: 2025/04/10

## Safety Data Sheet

### 1. IDENTIFICATION

Product Identifier	TP410 Light Black
Product code	TP410-LK-2L
Recommended use of the chemical and restrictions on use	Inkjet printing ink
Manufacturer	MIMAKI ENGINEERING CO., LTD. 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN +81-268-64-2413
Importer / Distributor	MIMAKI USA, INC. 4851 Thurmon Tanner Parkway, STE 100 Flowery Branch, GA 30542, U.S.A. +1-678-730-0170
Emergency Telephone No.	+1 866 928 0789 (within United States only, Toll free) +1 215 207 0061

### 2. HAZARDS IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of 29 CFR § 1910.1200

CARCINOGENICITY – Category 2

GHS Label Elements

Symbols



Signal Word

Warning

Hazard Statements

H351 Suspected of causing cancer.

Precautionary Statements

Prevention

Obtain SDS (Safety Data Sheet) and printer's Operation Manual before use. (P201)

Do not handle until all safety precautions have been read and understood. (P202)

Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response

IF exposed or concerned: Get medical advice/attention. (P308+P313)

Storage

Store locked up. (P405)

Disposal

Dispose of waste in accordance with local, state and federal regulations. (P501)

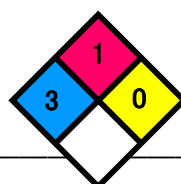
NFPA Hazard Rating

Health

3

Flammability

1



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Reactivity 0  
 Specific hazard Not applicable

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures	Mixture	
Chemical name	Contents	CAS number
Propylene glycol	1-5%	57-55-6
Glycerol	20-30%	56-81-5
2,2'-(ethylenedioxy)diethanol	3-5%	112-27-6
Carbon black	1-3%	Trade Secret
Others	55-75%	Trade Secret

### 4. FIRST-AID MEASURES

In case of inhalation	<p>Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>Get medical attention.</p> <p>If unconscious, place in recovery position and get medical attention immediately.</p> <p>Maintain an open airway.</p>
In case of skin contact	<p>Loosen tight clothing such as a collar, tie, belt or waistband.</p> <p>Flush contaminated skin with plenty of water.</p> <p>Remove contaminated clothing and shoes.</p> <p>Continue to rinse for at least 10 minutes.</p> <p>Get medical attention.</p> <p>Wash clothing before reuse.</p>
In case of eye contact	<p>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.</p> <p>Check for and remove any contact lenses.</p> <p>Continue to rinse for at least 10 minutes.</p> <p>Get medical attention.</p>
In case of ingestion	<p>Wash out mouth with water.</p> <p>If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.</p> <p>Stop if the exposed person feels sick as vomiting may be dangerous.</p> <p>Do not induce vomiting unless directed to do so by medical personnel.</p> <p>If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.</p> <p>Get medical attention.</p> <p>Never give anything by mouth to an unconscious person.</p> <p>If unconscious, place in recovery position and get medical attention immediately.</p> <p>Maintain an open airway.</p>

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Loosen tight clothing such as a collar, tie, belt or waistband.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective equipment and precautions for fire-fighters	Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus). Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	If specialized clothing is required to deal with the spillage, take note of any information in Section 8. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up	Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spills : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with

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non-combustible,  
 absorbent material e.g. sand, earth, vermiculite or diatomaceous earth  
 and place in container for disposal according to local regulations (see  
 Section 13). Dispose of via a licensed waste disposal contractor.  
 Contaminated absorbent material may pose the same hazard as the  
 spilled product.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Protective measures

Avoid exposure – obtain special instructions before use. Do not handle  
 until all safety precautions have been read and understood. Do not get  
 in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or  
 mist. If during normal use the material presents a respiratory hazard,  
 use only with adequate ventilation or wear appropriate respirator.  
 Eating, drinking and smoking should be prohibited in areas where this  
 material is handled, stored and processed.  
 Workers should wash hands and face before eating, drinking and  
 smoking. Remove contaminated clothing and protective equipment  
 before entering eating areas.

#### Advice on general occupational hygiene

### Conditions for safe storage, including any incompatibilities

#### Suitable storage conditions

Store in accordance with local regulations. Store in original container  
 protected from direct sunlight in a dry, cool and well-ventilated area,  
 away from incompatible materials (see Section 10) and food and drink.  
 Store locked up. Keep container tightly closed and sealed until  
 ready for use. Containers that have been opened must be carefully  
 resealed and kept upright to prevent leakage. Do not store in unlabeled  
 containers. Use appropriate containment to avoid environmental  
 contamination. See Section 10 for incompatible materials before  
 handling or use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
carbon black, respirable powder	: OSHA PEL 1989 (United States, 3/1989). TWA: 3.5 mg/m <sup>3</sup> 8 hours. : NIOSH REL (United States, 10/2020). TWA: 3.5 mg/m <sup>3</sup> 10 hours. TWA: 0.1 mg of PAHs/cm <sup>3</sup> 10 hours. : ACGIH TLV (United States, 1/2021). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction

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	: OSHA PEL (United States, 5/2018). TWA: 3.5 mg/m <sup>3</sup> 8 hours.
Appropriate engineering controls	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures	
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

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Physical State	Liquid
Color	Black
Odor	Characteristic
Odor threshold	Not available.
pH	7–9
Melting point	Not available.
Boiling point	Not available.
Flash point	Not flammable
Evaporation rate	Not available.
Flammability(Solid,Gas)	Not available.
Flammability or explosive limits	
Lower Limit	Not available.
Upper Limit	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific Gravity	1.0–1.1
Solubility	Not available.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	5–7mPa·s(25°C)

### 10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No information available.
Incompatible materials	No information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)	Not available.
Acute toxicity (Dermal)	Not available.
Acute toxicity (Inhalation : Gases)	Not available.
Acute toxicity (Inhalation : Vapours)	Not available.
Acute toxicity (Inhalation : dust/mist)	Not available.
Skin corrosion/ Irritation	Not available.
Serious eye damage/ irritation	Not available.
Respiratory Sensitization	Not available.
Skin Sensitization	Not available.



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Germ cell mutagenicity Not available.  
Carcinogenicity Not available.

Product/ingredient name	Category
carbon black, respirable powder	Category 2

### Classification

Product/ingredient name	IARC
carbon black, respirable powder	2B

Reproductive toxicity Not available.  
Reproductive toxicity, effects on or via lactation Not available.  
Specific target organ toxicity – Single exposure Not available.  
Specific target organ toxicity – Repeated exposure Not available.  
Aspiration hazard Not available.

## 12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment – Not available.  
Acute Toxicity  
Hazardous to the Aquatic Environment – Not available.  
Chronic Toxicity  
Hazardous to the Ozone layer Not available.

## 13. DISPOSAL CONSIDERATIONS

Disposal methods 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

IMDG Not dangerous goods  
IATA Not dangerous goods  
DOT Not dangerous goods

## 15. REGULATORY INFORMATION

U.S. Federal regulations TSCA 8(a) PAIR: 1,1'-oxydipropyl-2-ol; naphthalene; Siloxanes and Silicones, di-Me, reaction products with silica  
Clean Water Act (CWA) 307: ethylbenzene; phenanthrene; anthracene; pyrene; fluoranthene; benzo[ghi]perylene; naphthalene; benzene; Toluene; arsenic; benz[a]anthracene; benzo[a]pyrene; benz[e]acephenanthrylene; benzo[k]fluoranthene; chrysene; dibenz[a,h]anthracene; benzo[e]pyrene; benzo[j]fluoranthene

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Clean Air Act Section 112  
(b) Hazardous Air Pollutants (HAPs)  
Clean Air Act Section 602  
Class I Substances  
Clean Air Act Section 602  
Class II Substances  
DEA List I Chemicals  
(Precursor Chemicals)  
DEA List II Chemicals  
(Essential Chemicals)  
SARA 302/304

Clean Water Act (CWA) 311: Triethylamine; sodium hydroxide; xylene;  
ethylbenzene; naphthalene; benzene; Toluene  
Listed

Not listed

Not listed

Not listed

Not listed

Composition/information on  
ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
pyrene	≤0.1	Yes.	1000 / 10000	–	5000	–
ethylene oxide	<0.1	Yes.	1,000	–	10	–

SARA 304 RQ

2083312500.2 lbs / 945823875.1 kg

SARA 311/312

Classification

CARCINOGENICITY – Category 2

Composition/information on  
ingredients

Name	%	Classification
carbon black, respirable powder	≤3	CARCINOGENICITY – Category 2

California Proposition 65

## WARNING



This product can expose you to chemicals including Carbon black, Carbon-black extracts, Ethylbenzene, Ethylene Glycol, Naphthalene, Benzene, Toluene, Methanol, Arsenic, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Chrysene, Dibenz[a,h]anthracene, Benzo[j]fluoranthene, Anthracene and Ethylene oxide which are known to the State of California to cause cancer / birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

NFPA Hazard Rating

Health 3  
Flammability 1  
Reactivity 0  
Specific hazard Not applicable





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### 16. OTHER INFORMATION

Literature References

Other data

SDS of raw material

The information suggested in this Safety Data Sheet does not comprehend everything and should be adopted only as a guide. The accuracy of the information and recommendations suggested herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all liability for reliance thereon.