

Safety Data Sheet

1. IDENTIFICATION

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| Product Identifier | TP410 Magenta |
| Product code | TP410-M-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

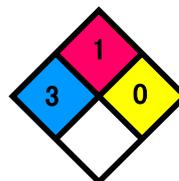
Not classified.

GHS Label Elements

| | |
|--------------------------|------|
| Symbols | None |
| Signal Word | None |
| Hazard Statements | None |
| Precautionary Statements | |
| Prevention | None |
| Response | None |
| Storage | None |
| Disposal | None |

NFPA Hazard Rating

| | |
|-----------------|----------------|
| Health | 3 |
| Flammability | 1 |
| 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 | 15-25% | 56-81-5 |
| 2,2'-(ethylenedioxy)diethanol | 3-5% | 112-27-6 |

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| Others | 65-85% | Trade Secret |
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4. FIRST-AID MEASURES

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| In case of inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. |
| In case of skin contact | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| In case of eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| In case of ingestion | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |

5. FIRE-FIGHTING MEASURES

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| 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 nitrogen oxides |
| 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

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| 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. |
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| Environmental precautions | Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. 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. 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 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. |

7. HANDLING AND STORAGE

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| Precautions for safe handling | |
| Advice on general occupational hygiene | 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. |
| 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. 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

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| Control parameters | |
| Occupational exposure limits | None. |

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| Appropriate engineering controls | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| 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

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| Appearance | |
| Physical State | Liquid |
| Color | Red |
| Odor | Characteristic |
| Odor threshold | Not available. |

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| 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

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| 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

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| 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. |
| Germ cell mutagenicity | Not available. |
| Carcinogenicity | Not available. |
| Reproductive toxicity | Not available. |
| Reproductive toxicity, effects on or via | Not available. |

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| lactation | |
| Specific target organ toxicity – Single exposure | Not available. |
| Specific target organ toxicity – Repeated exposure | Not available. |
| Aspiration hazard | Not available. |

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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| Disposal methods | Comply with all USA, national and local regulations. <u>Do not dump this product into sewers, on the ground or into any body of water.</u> |
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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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| U.S. Federal regulations | TSCA 8(a) PAIR: 5,12-dihydroquino[2,3-b]acridine-7,14-dione; 1,1'-oxydipropyl-2-ol; Siloxanes and Silicones, di-Me, reaction products with silica Clean Water Act (CWA) 307: ethylbenzene Clean Water Act (CWA) 311: Triethylamine; xylene; ethylbenzene; sodium hydroxide |
| Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) | Listed |
| Clean Air Act Section 602 Class I Substances | Not listed |
| Clean Air Act Section 602 Class II Substances | Not listed |
| DEA List I Chemicals (Precursor Chemicals) | Not listed |
| DEA List II Chemicals (Essential Chemicals) | Not listed |
| SARA 302/304 | |

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Composition/information on ingredients

| Name | % | EHS | SARA 302 TPQ | | SARA 304 RQ | |
|----------------|------|------|--------------|-----------|-------------|-----------|
| | | | (lbs) | (gallons) | (lbs) | (gallons) |
| ethylene oxide | <0.1 | Yes. | 1,000 | - | 10 | - |

SARA 304 RQ 555561111166.7 lbs / 252224744469.7 kg

SARA 311/312

Classification Not applicable.

Composition/information on ingredients No products were found.

California Proposition 65

WARNING



This product can expose you to chemicals including Ethylene oxide, Ethylbenzene, Ethylene Glycol and Methanol 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.

NFPA Hazard Rating

Health 3
 Flammability 1
 Reactivity 0
 Specific hazard Not applicable

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.