

Safety Data Sheet

1. IDENTIFICATION

Product Identifier	TP410 Red
Product code	TP410-R-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

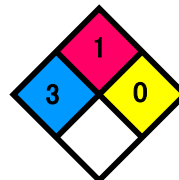
Not classified.

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	10-20%	56-81-5
2,2'-(ethylenedioxy)diethanol	3-5%	112-27-6

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Others	70-90%	Trade Secret
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4. FIRST-AID MEASURES

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

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 halogenated compounds
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.
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Environmental precautions	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 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

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

Control parameters

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Occupational exposure limits	None.
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

Appearance	
Physical State	Liquid
Color	Red
Odor	Characteristic

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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.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Not available.

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

13. DISPOSAL CONSIDERATIONS

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

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

15. REGULATORY INFORMATION

U.S. Federal regulations	TSCA 6 final risk management: 1,1'-Biphenyl, chloro derivs. TSCA 8(a) PAIR: 1,1'-oxydipropan-2-ol; Siloxanes and Silicones, di-Me, reaction products with silica Clean Water Act (CWA) 307: ethylbenzene; 1,1'-Biphenyl, chloro derivs. Clean Water Act (CWA) 311: Triethylamine; xylene; ethylbenzene; sodium hydroxide; 1,1'-Biphenyl, chloro derivs.
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

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SARA 302/304

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 432103566582.8 lbs / 196175019228.6 kg

SARA 311/312

Classification Not applicable.

Composition/information on ingredients

Name	%	Classification
3,6-Bis(4-chlorophenyl)pyrrolo [3,4-c]pyrrole-1,4(2H,5H)-dione	≤5	COMBUSTIBLE DUSTS

California Proposition 65

WARNING



This product can expose you to chemicals including Polychlorinated biphenyls, 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

SDS of raw material

Other data

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.