Safety Data Sheets

1. Identification

Product Name	: IJ Primer PR-200
Order No.	: PR200-Z-22 / PR200-Z-60 / PR200-Z-BA / PR200-Z-B2
Ink Ver	: 3, 4
General Use	: Primer for ink jet printer
Product Description	: The undercoating liquid
SDS Number	: 037-O065605
Manufacture	
Company Name	: Mimaki Engineering Co., Ltd.
Address	: 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN
Telephone No.	: +81-268-64-2413
Importer / Distributor Established in USA	
Company Name	: MIMAKI USA, INC.
Address	: 4851 Thurmon Tanner Parkway, STE 100 Flowery Branch, GA 30542, U.S.A.
Telephone No.	: +1-678-730-0170
Emergency Telephone No.	: +1 866 928 0789 (within United States only, Toll free) +1 215 207 0061

2. Hazards Identification

[HCS Classification]

Physical Hazards	
Flammable Liquids	: Not classified
Substances and Mixtures, which in Contact with Water, Emit Flammable Gases	: Not classified
Health Hazards	
Skin Corrosion / Irritation	: Category 2
Sensitization – Skin	: Category 1
Environmental Hazards	
Hazardous to the Aquatic Environment - Acute Hazard	: Category 3
Hazardous to the Aquatic Environment - Long Term Hazard	: Category 2

The above list does not include category being non-classifiable or not-applicable.

[GHS Label Elements]

Symbol



Signal Word

Warning

Hazard Statements

H315 Causes skin irritation
H317 May cause an allergic skin reaction
H402 Harmful to aquatic life
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

[Prevention]
P261 Avoid breathing gas/mist/vapours.
P264 Wash hands and eyes thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
[Response]
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
[Disposal]

Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

3. Composition / Information on Ingredients

Substance or Mixture : Mixture

No	Chemical Name	Wt%	CAS No.
1	Aliphatic monomer	80-90	Trade Secret
2	Aromatic monomer	1-10	Trade Secret
3	Polyester Oligomer	<5	Trade Secret
4	Photopolymerization initiator	<5	Trade Secret
5	Other	<1	Trade Secret
6	Acrylic acid	<0.5	79-10-7
7	2,6-Di-tert-butyl-p-cresol (BHT)	<0.2	128-37-0

4. First Aid Measures

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice / attention if you feel unwell. Get medical advice / attention if experiencing respiratory symptoms.
Skin Contact	: Remove / Take off all contaminated clothing immediately. Wash with plenty of soap and water. Get immediate medical advice / attention, if skin irritation or rash occurs.
Eye Contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse with clean water for at least 15 minutes and then seek medical attention if necessary. When rinsing, open your eyelids with fingers to insure saturation of water.
Ingestion	: Rinse mouth. Do not induce vomiting. Get immediate medical advice / attention. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintainopen airway and prevent aspiration.
Protection for personnel administering first aid	: Wear appropriate protective equipment if necessary.

5. Fire Fighting Measures

Flammable Properties	: Flash point : Approx 106 ℃ Ignition point : Not available Flammable point : Not available
Extinguishing Media	: <u>Suitable extinguishing media</u> Fire-extinguishing powder, fire-fighting foam, carbon dioxide, sand, water spray <u>Unsuitable extinguishing media</u> High pressure water jet.
Specific hazards arising from product	: When exposed to high temperatures, this product may generate dangerous decompositions such as nitrogen oxidescarbon monoxide,

	carbon dioxide, and sulfur oxides.
Specific extinguish measures	: Cut off the combustion source to the origin of fire and extinguish by using theappropriate fire extinguishing media. Take appropriate measures to disallow substances that may affect the environment frombeing dispersed by the drainage. Remove all containers possible to a safe place promptly if possible. If not possible to remove, cool down the area. Work from windward and use respiratoryequipment if necessary.
Special protective equipment and precautions	: Wear appropriate protective wear (heat-proof) including air respirators.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	: Avoid breathing mist / vapors. Remove ignition sources in the area and work from windward. Clean up immediately when it spills on the floor or any surface. (The floor surface becomes slippery). The worker wears an appropriate protective equipment, and avoids eyes, the skin contacts, and inhalations. (refer toItem 8) Prepare fire extinguishing equipment in case of ignition.
Environmental precautions	: Avoid releasing to the environment. Collect spillage. If the pollution of water pipes or waterways occur, contact relevant organizations. Clean the area and avoid entry into plumbing system.
Methods and materials for recovery and neutralization	: Collect into open container by absorbing with cloths, rags, sand or etc. and then rinse with plenty of water. Contain the flow path with blankets or sand bags and collect into an appropriate container for large spills. Wear appropriate protective equipment throughout the process.

7. Handling and Storage

Handling	: Seal container after use. Wash hands thoroughly and rinse mouth after handling.

Do not eat, drink or smoke when using this product.
Do not carry contaminated gloves and protective equipment into rest / break areas.
Wear proper protective equipment to avoid inhalation and contact with eyes and skin.

Storage : Keep container tightly closed.
Store in a dark light-safe area.

8. Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name		TWA
1	Acrylic acid	ACGIH	2ppm
2	2,6-di-tert-butyl-p-cresol	ACGIH	2mg/m^3

TWA : Time Weighted Average

Exposure Controls

Occupational Exposure Controls

Engineering Controls : It is desirable to install a local exhaust system as necessary.

Personal protective equipment : Wear following protective equipment as necessary and accordingly.
Inspect equipment on a regular basis by using a protective equipment maintenancechart.

Respiratory Protection : Wearing organic vapor gas mask is preferred.



Hand Protection : Wearing gloves that organic solvents or chemicals do not penetrate is preferred.



Eye Protection : Wearing protective glasses is preferred.



Skin Protection : Wearing protective clothing (long sleeve uniform) that organic

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solvent or the chemical do not infiltrate easily preferred.

Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

Appearance	- Physical State	: liquid
	- Color	: Yellow
Odor		: Faint
pH		: Not Applicable
Boiling Point / Boiling Range		: Not available
Melting Point / Melting Range		: Not available
Flash Point		: 106℃
Relative Density		: Approx 1.1g/cm^3
Solubility		: Not available
Water Solubility		: Not available
Partition Coefficient (n-octanol / Water)		: Not available
Viscosity		: Not available

10. Stability and Reactivity

Reactivity	: Decomposes upon heating and produces carbon dioxide and carbon monoxide.
Conditions to Avoid	: Sunlight, heat, open flame, high temperature, sparks, static electricity, other sources of ignition.
Stability	: Stable under normal conditions.
Incompatible materials	: No information available.
Hazardous decomposition products	: Carbon monoxide (CO), carbon dioxide (CO2) gas might be generated by combustion.

11. Toxicological Information

Acute Toxicity : ORAL

Product ; Classification not possible based on the calculation.

	Ingredients ; Category 4 (acrylic acid)
	: DERMAL
	Product ; Classification not possible based on the calculation.
	Ingredients ; Category 3(acrylic acid)
	: INHALATION
	Product ; Classification not possible based on the calculation.
	Ingredients ; Not enough information to classify.
Skin corrosion/irritation	: Product ; Category 2 based on the calculation.
	Ingredients ; Category 1 (acrylic acid) ,Category 2 (Aliphatic monomer)
Serious eye damage/irritation	: Product ; Classification not possible based on the calculation.
	Ingredients ; Category 1 (acrylic acid) ,Category 2 (BHT)
Skin Sensitization	: Product ; Category 1 based on the calculation.
	Ingredients ; Category 1.(Aromatic monomer, Photopolymerization initiator)
Germ cell mutagenicity	: No information available.
Carcinogenicity	: No information available.
Reproductive toxicity	: Product ; Classification not possible based on the calculation.
	Ingredients ; Category 2 (BHT)
Specific Target Organ Toxicity (Single Exposure)	: Product ; Classification not possible based on the calculation.
	Ingredients ; Category 1 (acrylic acid, BHT) ,Category 2 (acrylic acid)
Specific Target Organ Toxicity (Repeated Exposure)	: Product ; Classification not possible based on the calculation.
	Ingredients ; Category 1 (acrylic acid) ,Category 2 (BHT)
Aspiration hazard	: No information available.

12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it.
Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

Ecotoxicity	: Acute Hazard
	Product ; Category 3 based on the calculation.
	Ingredients ; Category 1 (acrylic acid) ,Category 2 (aromatic monomer)
	Long Term Hazard

	Product ; Category 2 based on the calculation. Ingredients ; Category 2.(Aliphatic monomer, acrylic acid)
Persistence and degradability	: No information available.
Bioaccumulative Potential	: No information available.
Mobility in soil	: No information available.
Other adverse effects	: No information available.

13. Disposal Considerations

Comply with all USA, national and local regulations. A contaminated container and packing are disposed of after removing extraneous matter thoroughly. Follow all regulations in your country or regions.

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

14. Transport Information

Avoid direct sunlight during transportation. Confirm the container has no damage, corrosion, leakage beforetransportation. Take measures to prevent the load from tipping, falling and damages.

UN Number	: 3082
Proper Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S (Aliphatic monomer)
Transport hazard class(es)	: 9
Packing Group(PG)	: III
Marine Pollutant	: Yes (Product)
Remarks	: Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

15. Regulatory Information

The product must be used, stored, and transported in accordance with local / regional / national / international

California Proposition 65 : **WARNING**



This product can expose you to chemicals including Toluene, 1,4-Dioxane 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.

16. Other Information

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