

# 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   |
| General Use                               | : Primer for ink jet printer  |
| Product Description                       | : The undercoating liquid   |
| SDS Number                                | : 037-0065605   |
| 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                                   | : 150 Satellite Boulevard NE , suite A, Suwanee, Georgia 30024,<br>U.S.A.   |
| Telephone No.                             | : +1-678-730-0170   |
| Emergency Telephone No.                   | : +1 866 928 0789 (within United States only, Toll free)<br>+1 215 207 0061 |

## 2. Hazards Identification

[HCS Classification]

### Physical Hazards

Flammable Liquids : Not classified

Substances and Mixtures, which in : Not classified

Contact with Water, Emit Flammable

Gases

### Health Hazards

Skin Corrosion / Irritation : Category 2

Sensitization – Skin : Category 1

### Environmental Hazards

Hazardous to the Aquatic : Category 3

Environment - Acute Hazard

Hazardous to the Aquatic : Category 2

Environment - Long Term Hazard

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

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## [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     |

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### 4. First Aid Measures

|  |  |
|--|--|
| Inhalation                                       | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>Get medical advice / attention if you feel unwell.<br>Get medical advice / attention if experiencing respiratory symptoms.                                 |
| Skin Contact                                     | : Remove / Take off all contaminated clothing immediately.<br>Wash with plenty of soap and water.<br>Get immediate medical advice / attention, if skin irritation or rash occurs.  |
| Eye Contact                                      | : Remove contact lenses, if present and easy to do. Continue rinsing.<br>Rinse with clean water for at least 15 minutes and then seek medical attention if necessary.<br>When rinsing, open your eyelids with fingers to insure saturation of water. |
| Ingestion  | : Rinse mouth. Do not induce vomiting.<br>Get immediate medical advice / attention.<br>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open 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 °C<br>Ignition point : Not available<br>Flammable point : Not available   |
| Extinguishing Media                   | : <u>Suitable extinguishing media</u><br>Fire-extinguishing powder, fire-fighting foam, carbon dioxide, sand, water spray<br><u>Unsuitable extinguishing media</u><br>High pressure water jet. |
| Specific hazards arising from product | : When exposed to high temperatures, this product may generate dangerous decompositions such as nitrogen oxide, carbon monoxide,   |

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

### 6. Accidental Release Measures

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

### 7. Handling and Storage

|          |   |
|----------|---|
| Handling | <p>: Seal container after use.</p> <p>Wash hands thoroughly and rinse mouth after handling.</p> |
|----------|---|

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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 <sup>3</sup> |

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 maintenance chart.

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°C                       |
| Relative Density                          |                  | : Approx 1.1g/cm <sup>3</sup> |
| 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 (CO <sub>2</sub> ) gas might be generated by combustion.        |

### 11. Toxicological Information

|                |   |
|----------------|---|
| Acute Toxicity | : ORAL  |
|                | Product ; Classification not possible based on the calculation. |

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|--|--|
|  | 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   |

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|                               |  |
|-------------------------------|--|
|                               | 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 before transportation. Take measures to prevent the load from tipping, falling and damages.

|                            |   |
|----------------------------|---|
| UN Number                  | : 3082  |
| Proper Shipping Name       | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S<br>(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.<br>Refer to ICAO/IATAA197, IMDG 2.10.2.7, ADR SP 375. |



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### 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](http://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.

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

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