

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 / PR200-Z-CA/ PR200-Z-C6
Ink Ver	: 2
General Use	: Primer for ink jet printer
Product Description	: The undercoating liquid
SDS Number	: 037-0060306
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 : Not classified

Contact with Water, Emit Flammable

Gases

Health Hazards

Skin Corrosion / Irritation : Category 2

Eye Damage / Irritation : Category 2

Sensitization – Skin : Category 1

Environmental Hazards

Hazardous to the Aquatic : Category 2

Environment - Acute Hazard

Safety Data Sheets

Hazardous to the Aquatic : Category 2
Environment - Long Term Hazard

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
- H319 Causes serious eye irritation
- 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.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/ attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P391 Collect spillage.

[Disposal]

- P501 Dispose of contents and container in accordance with local, regional, national and international regulation (to be specified).

Statement(s) of Unknown Aquatic Toxicity

- 45% of the mixture consists of ingredient(s) of unknown acute aquatic toxicity.
- 40% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

HMIS Rating (scale 0 – 4)

Health = 1

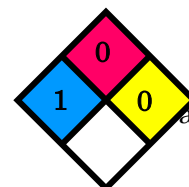
Flammability= 0

1	Health
0	Flammability
0	Reactivity
0	Protective Equipment

NFPA Rating (scale 0 – 4)

Health = 1

Flammability = 0



Safety Data Sheets

Reactivity = 0

Instability = 0

Protective Equipment =

Special =

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Aliphatic monomer	40-50	Trade Secret
2	Acrylic oligomer	25-35	Trade Secret
3	Aromatic monomer	15-25	Trade Secret
4	Photo-initiator	<10	Trade Secret
5	Additives	<10	Trade Secret

*Acrylic oligomer contains acrylic acid and toluene. And aromatic monomer contains phenyl glycidyl ether

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 symptom.
Cover body with blanket to warm and keep at rest. Perform CPR if not breathing.
- Eye Contact : Rinse cautiously with water for several minutes. 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. Seek medical attention if the problem persists.
- 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.
- Ingestion : Rinse mouth. Do not give an unconscious person anything to drink. Get immediate medical advice/ attention. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Do not induce vomiting.
- Protection To First-Aiders : Wear appropriate protective equipment if necessary.



Safety Data Sheets

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Safety Data Sheets

5. Fire Fighting Measures

Flammable Properties	: Flash point : Approx 106 °C 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 oxides carbon monoxide, carbon dioxide, and sulfur dioxide.
Specific extinguish measures	: Cut off the combustion source to the origin of fire and extinguish by using the appropriate fire extinguishing media. Firefighting measures should be done from windward as much as possible. Take appropriate measures to disallow substances that may affect the environment from being dispersed by the drainage. Remove all containers possible to a safe place promptly. If not possible to remove, cool down the area. Work from windward and avoid inhaling any harmful gases. Use respiratory equipment if necessary.
Special protective equipment and precautions	: Cut off the combustion source to the origin of fire and extinguish by using extinguishing media. Combustion / Flue gases generate carbon monoxide and etc. To avoid the fire from spreading, cool surrounding area with water spray. Extinguish from windward and avoid inhaling any harmful gases. Use respiratory equipment if necessary. Extinguish from the windward where the gases do not accumulate and prevent the leakage from spreading. Wear appropriate protective wear (heat-proof) including air respirators. Wear respiratory equipment for harmful gases are produced from combustion or high temperature.

Safety Data Sheets

6. Accidental Release Measures

Personal Precautions	: Avoid breathing gas / mist/vapours. Wear protective equipment (boots, gloves, and glasses) to prevent contact with skin. 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). Prohibit entry other than related personnel. Ventilate released area. Do not touch and/or walk in the spills. The worker wears an appropriate protective equipment, and avoids eyes, the skin contacts, and inhalations. (refer to Section 8) Provide adequate ventilation if indoors. Cordon off the area and prevent entry of non-related personnel. Work from windward and remove personnel downwind of the area. Wear appropriate protective equipment to prevent contact with skin and inhaling fumes. Remove ignition sources in the area promptly. Prepare fire extinguishing equipment in case of ignition.
Environmental precautions	: Avoid releasing to the environment. Collect spillage. Do not empty into drain. If it is mixed with wastewater, drain it after the activated sludge process. Be careful not to influence living organisms and water quality in the environment by products released into rivers and any type of body of water. Contact local authorities if it is flowing into rivers or any type of body of water as necessary. Be careful not to influence the environment by products released into rivers or any type of body of water. If the pollution of water pipes or waterways occur, contact relevant organizations. Clean the area and avoid entry into plumbing system. Be careful not to drain or release untreated waste water into the environment.
Methods and materials for recovery and neutralization	: Contain the flow path with blankets or sand bags and collect into an appropriate container for large spills. Gather and collect into a container for small spills. Prevent the inflow into drains, sewer, basement, or enclosed areas. Clean spills frequently as there is danger of slipping on remnants. Remove all ignition sources. Smoking, open flame or ignition sources are not allowed in the area. Contain with consideration to safety. Collect into open container by absorbing with cloths, rags, sand or etc. and then rinse with plenty

Safety Data Sheets

of water. Collect what has scattered into a container that can be sealed. Clean the spilled area with a cloth or a rag. Wear appropriate protective equipment throughout the process.

7. Handling and Storage

	<p>Relevant regulation shall be subject to where this product will be handled and stored.</p>
Handling	<p>: Work in accordance with the Occupational Safety and Health Act and related laws and regulations. Keep the concentration below the allowed limit. Avoid inhalation and contact. Wear protection if risk of exposure occurs. Use only in a well-ventilated area. Avoid smoking, open flames, heat and sources of ignition. Always cleanse with soap and water after handling. Determine proper procedures for compliance. Seal container after use. Avoid leakage, overflow, dispersal and generating steam without any good reason. Avoid improper handling like tipping over, dropping, strong impact to or dragging the container. 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. Prohibit entry to work areas other than related personnel. Collect used containers in a defined / fixed area. Use containers that are not damaged, corroded or cracked. Use local exhaust ventilation systems indoors work areas. Wear proper protective equipment to avoid inhalation and contact with eyes and skin.</p>
Storage	<p>: Store in a well-ventilated area. Protect from sunlight (Ultra Violet-light). Keep container tightly closed. Keep cool. Store in a dark light-safe area. Do not freeze.</p>

Safety Data Sheets

8. Exposure Controls / Personal Protection

Exposure Limit Values : Not specified

No	Chemical Name		TWA
1	Acrylic compound	ACGIH	2ppm
2	Aromatic compound	OSHA	10ppm
		ACGIH	0.1ppm
3	Additives	ACGIH	2mg/m ³ (IFV)

TWA : Time Weighted Average, IFV : As inhalable fraction and vapor.

Exposure Controls

Occupational Exposure Controls

Engineering Controls : In the case of indoor use, contain at the source or install a local exhaust system. Provide safety shower and eye / hand wash stations and identify the area clearly. Contain at the source and install a local exhaust system if dust is generated.

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

Respiratory Protection : Supplied air respirator, air/ oxygen breathing apparatus, organic vapor gas mask



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



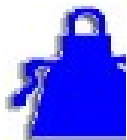
Eye Protection : Wear coverall, chemical goggles and face shield when handling.



Safety

Safety Data Sheets

Skin Protection



: Wearing protective clothing (long sleeve uniform) that organic 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		: Approx 181°C
Melting Point / Melting Range		: Not available
Flash Point		: Approx 106°C
Relative Density		: Approx 1.1mg/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.
Materials to Avoid		: Incompatible with acid, alkali, amines and is prohibited to mix with.
Hazardous Reactions / Decomposition Products		: Carbon monoxide (CO), carbon dioxide (CO ₂) gas might be generated by combustion. Vapor from organic solvents.

Safety Data Sheets

11. Toxicological Information

Acute Toxicity	: ORAL				
	<table border="1"> <tr> <td>Product</td> <td>LD50(rat) : >2000 mg/kg</td> </tr> </table>	Product	LD50(rat) : >2000 mg/kg		
Product	LD50(rat) : >2000 mg/kg				
	: DERMAL				
	<table border="1"> <tr> <td>Product</td> <td>LD50(rat) : >2000 mg/kg</td> </tr> </table>	Product	LD50(rat) : >2000 mg/kg		
Product	LD50(rat) : >2000 mg/kg				
Eye Irritation	: Causes severe eye irritation. Category 2 as a product.				
	<table border="1"> <tr> <td>Aliphatic compound</td> <td>Category 2</td> </tr> <tr> <td>Aromatic compound</td> <td>Category 2</td> </tr> </table>	Aliphatic compound	Category 2	Aromatic compound	Category 2
Aliphatic compound	Category 2				
Aromatic compound	Category 2				
Skin Irritation	: Causes moderate skin irritation. Category 2 as a product.				
	<table border="1"> <tr> <td>Aliphatic compound</td> <td>Category 2</td> </tr> <tr> <td>Aromatic compound</td> <td>Category 2</td> </tr> </table>	Aliphatic compound	Category 2	Aromatic compound	Category 2
Aliphatic compound	Category 2				
Aromatic compound	Category 2				
Skin Sensitization	: May cause an allergic skin reaction. Category 1 as a product.				
	<table border="1"> <tr> <td>Aromatic compound</td> <td>Category 1</td> </tr> </table>	Aromatic compound	Category 1		
Aromatic compound	Category 1				
Mutagenicity	: No information available.				
Carcinogenicity	: No information available.				
Reproductive and Developmental Toxicity	: No information available.				
Specific Target Organ Toxicity (Single Exposure)	: No information available.				
Specific Target Organ Toxicity (Repeated Exposure)	: No information available.				
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	: Toxic to aquatic life.		
	<table border="1"> <tr> <td>Aliphatic compound</td> <td>Category 2</td> </tr> </table>	Aliphatic compound	Category 2
Aliphatic compound	Category 2		
Persistence and degradability	: No information available.		

Safety Data Sheets

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

Use a container provided for in the UN Recommendations on the TDG Model Regulations. 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. Follow all regulations on the transport in your countries regions. Verify the container as no leaks when transporting and take preventative measure when loading so that the cargo does not tip, fall or get damaged during transit.

UN Number	: 3082
Proper Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S(Aliphatic monomer)
Transport hazard class(es)	: 9 (Miscellaneous dangerous substances & articles)
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/IATAA197, IMDG 2.10.2.7, ADR SP 375.

Safety Data Sheets

15. Regulatory Information

U.S Federal Regulation : None of this products components are listed under SARA Sections 302/304, SARA Section 313, CERCLA.

SARA Section 311/312 reporting categories: Skin Irritation; Skin Sensitization; Eye Irritation

TSCA INVENTORY :

Chemical name	TSCA INVENTORY
Aliphatic monomer	Listed
Acrylic oligomer	No Listed
Aromatic monomer	Listed
Photo-initiator	Listed
Additives	Listed

SARA Section 311/312 (40 CFR 370 Subparts B and C) 2016 reporting categories : Acute Health: Yes
Chronic Health: Yes
Fire: No
Pressure: No
Reactivity: No

California Proposition 65 : **WARNING**



This product can expose you to chemicals including Phenyl glycidyl ether and Toluene, 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.

: California Proposition 65:

Chemical name	CAS-No.	wt%	MADL
Phenyl glycidyl ether	122-60-1	<0.1	5.0 µg/day
Toluene	108-88-3	<0.1	7000 µg/day

Others : Please refer to any other federal, state and local regulations.

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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Safety Data Sheets

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.