

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	
General Use	: Primer for ink jet printer	
Product Description	: The undercoating liquid	
SDS Number	: 037-O060306	
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, suite A, Suwanee, Georgia 30024, U.S.A.	
Telephone No.	: +1-678-730-0700	
Emergency Telephone No.	: +81-268-64-2281	

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
Carcinogenicity	: Category 2
Toxic to Reproduction	Category 2



Environmental Hazards	
Hazardous to the Aquatic	Category 2
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.

[GHS Label Elements]



Signal Word Warning

Hazard Statements

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's operation manual before use.

P202 Do not handle until all safety precautions have been read and understood.

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see 4-Response on our website/SDS URL: www.mimaki.co.jp/sds).

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.

[Storage]

P405 Store locked up.

[Disposal]

Product Name: IJ Primer PR-200 SDS No. 037-0060306 First issue: 2015/07/23 Revised: 2021/11/17

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

HMIS Rating (se	cale $0 - 4$)
Health = 1	1 Health
Flammability= 0	0 Flammability
Reactivity $= 0$	0 Reactivity
Protective Equipment =	OProtective Equipment

NFPA Rating (scale 0-4)

Health = 1 Flammability = 0 Instability = 0

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.

5. Fire Fighting Measures

Flammable Properties	: Flash point : Approx 106 $^{\circ}$ 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
	Unsuitable extinguishing media
	High pressure water jet.
Specific hazards arising	: When exposed to high temperatures, this product may generate
from product	dangerous decompositions such as nitrogen oxides carbon monoxide,
	carbon dioxide, and sulfur dioxide.
Specific extinguish	: Cut off the combustion source to the origin of fire and extinguish by
measures	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: 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.

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	Avoid releasing to the environment. Collect spillage. Do not empty
precautions	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: 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
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

Relevant regulation shall be subject to where this product will be handled and stored.

Handling : 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.

Storage

: 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. Store locked up.

8. Exposure Controls / Personal Protection

Exposure Limit values · Not specified			
No	Chemical Name		TWA
1	Acrylic compound	ACGIH	2ppm
2 Arom	Anomatic compound	OSHA	10ppm
	Aromatic compound	ACGIH	0.1ppm
3	Additives	ACGIH	2mg/m ³ (IFV)

Exposure Limit Values : Not specified

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	Supplied air respirator, air/ oxygen breathing apparatus, organic
Protection	vapor gas mask
Vapor Respirator	
Hand Protection	\therefore Wearing gloves that organic solvents or chemicals do not penetrate is
	preferred.
Gloves	

Eye Protection	: Wear coverall, chemical goggles and face shield when handling.
Safety Glasses	
Skin Protection	: Wearing protective clothing (long sleeve uniform) that organic
_ _	solvent
	or the chemical do not infiltrate easily preferred.
Protective Apron	
Environmental Exposur	e 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℃	
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 /	: Carbon monoxide (CO), carbon dioxide (CO2) gas might be generated
Decomposition Products	by combustion. Vapor from organic solvents.

11. Toxicological Information

Acute Toxicity	: ORAL		
	Aliphatic compound	LD50(rat) : 4890 mg/kg	
	Acrylic compound	LD50(rat) : >2000 mg/kg	
	Photo-initiator	LD50(rat) : >2000 mg/kg	
	: DERMAL		
	Aliphatic compound	LD50(rat) : >5000 mg/kg	
	Acrylic compound	LD50(rat) : >2000 mg/kg	
	Photo-initiator	LD50(rat) : >2000 mg/kg	
Eye Irritation	: Causes severe eye irrita	tion. Category 2 as a product.	
	Aliphatic compound	This ingredient was reported of mild ocular irritating property in the eye irritation tests in the rabbits.	
	Aromatic compound	This ingredient was reported of severe ocular irritating property in the eye irritation tests.	
Skin Irritation	cin Irritation : Causes moderate skin irritation. Category 2 as a product.		
	Aliphatic compound	This ingredient was reported of moderate ocular irritating property in the skin irritation tests in the rabbits.	
	Acrylic compound	This ingredient was reported of moderate ocular irritating property in the skin irritation tests in the rabbits. (P.I.I:2.0)	
	Aromatic compound	This ingredient was reported of moderate ocular irritating property in the skin irritation tests.	
Skin Sensitization	: May cause an allergic sł	xin reaction. Category 1 as a product.	
	Aromatic compound	This ingredient have skin sensitization.	
	Photo-initiator	This ingredient showed positive by skin sensitization test in guinea pig.	
Mutagenicity	: No information availabl	e.	



Carcinogenicity	: Suspected of causing cancer. Category 2 as a product.		
		IARC : 2B	
		(Possibly carcinogenic to Humans)	
		ACGIH : A3	
		(Confirmed Animal Carcinogen with	
	Aromatic compound	Unknown Relevance to Humans)	
		EU:3	
		(Possibly carcinogenic to Humans)	
		Proposition 65:	
		Chemical known to cause cancer.	
Reproductive and Developmental Toxicity			
: Suspected of damaging fertility or the unborn child. Category 2 as a			
	product.		
	This ingredient suspected of damaging		
	Aromatic compound	fertility or the unborn child.	
	Aromatic compound		
		Proposition 65 :	
		Proposition 65 : Reproductive toxicity substance	
Specific Target Organ Toxic	ity (Single Exposure)	-	
	ity (Single Exposure) No information available	Reproductive toxicity substance	
	No information available	Reproductive toxicity substance	
: Specific Target Organ Toxic	No information available	Reproductive toxicity substance	
: Specific Target Organ Toxic :	No information available ity (Repeated Exposure)	Reproductive toxicity substance	

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.

 Aliphatic compound
 Eco-toxicity data Crustacea species : Ceriodaphnia dubia : EC50(48h) 1-10mg/l

 Bioaccumulative
 : No information as a product.

 Potential
 Photo-initiator
 No rapidly biodegradable substance.

 Additives
 No rapidly biodegradable substance.



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	: 9 (Miscellaneous dangerous substances & articles)
class(es)	
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.



15. Regulatory Information

:

Classified and labeling in accordance with OSHA HCS (29CFR 1910,1200), revised in 2012: See section

TSCA Status

10011010100				
	Che	emical name	TSCA INVENTORY	
	Alip	ohatic monomer	Listed	
	Acr	ylic oligomer	No Listed	
	Aro	matic monomer	Listed	
	Pho	oto-initiator	Listed	
	Add	litives	Listed	
SNUR Components	: Not	Applicable		-
Cancerogenity	: EPA	(Environmental Pr	rotection Agency)	
categories			II : Toluene	
	TLV	(Threshold Limit V	alue established by ACGI	H)
			A3 : Phenyl	glycidyl ether
			A4 : Acrylic	acid, Toluene
	NIO	SH-Ca (National In	stitute for Occupational S	afety and Health)
			Phenyl glyc	eidyl ether
CERCLA Hazardous	: Acry	lic acid, Toluene		
Substances				
(40 CFR 117, 302)				
Section 311/312	: None	e of the ingredient i	s listed.	
(40 CFR 370)				
Section 313	: Acry	lic acid, Toluene		
(40 CFR 372)				
XAcrylic acid and Toluer	ie are r	not applicable for le	ss than regulation level.	
California Proposition 65		: WARNING		
		This product can	expose you to chemicals i	ncluding Phenyl
	glycidyl ether and Toluene, which are known to the State of			
		California to caus	se cancer/ birth defects or	other reproductive
		harm. For more i	nformation go to www.P6	5Warnings.ca.gov.
Others	Please	e refer to any other	federal state and local re	gulations

 $Please\ refer\ to\ any\ other\ federal,\ state\ and\ local\ regulations.$

Others



16. Other Information

References

Guide to Occupational Exposure Values (ACGIH 2014)
 Registry of Toxic Effects of Chemical Substances (CCOHS)
 SDS published by manufacturer of the product

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