


Safety Data Sheets

Section 1 – Identification

Product identifier	IJ Primer PR-200
Product code	PR200-Z-22/PR200-Z-60/PR200-Z-BA/PR200-Z-BA
Ink Ver.	3
Recommended use of the chemical and restrictions on use	IJ Ink Primer of UV Cure ink
Manufacturer	MIMAKI ENGINEERING CO., LTD. 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN +81-268-64-2413
Importer / Distributor Information	MIMAKI AUSTRALIA PTY LTD. Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia + 61-2-8036-4500
Emergency telephone number	+61 2 8014 4558 (within Australia only) 18000 74234 (within Australia only) +65 3158 1074

Section 2 – Hazard(s) Identification

Classification of the hazardous chemical	<p>Skin corrosion/irritation Category 2</p> <p>Serious eye damage/eye irritation Category 2A</p> <p>Sensitization – skin Category 1</p> <p>Specific target organ toxicity (single exposure) Category 3 (respiratory tract irritation)</p> <p>Hazard to the aquatic environment (acute hazard) Category 1</p> <p>Hazard to the aquatic environment (long-term hazard) Category 1</p>
Label elements, including precautionary statements	
Pictograms or Symbols	
Signal Word	Warning
Hazard Statements	<p>H315 Causes skin irritation</p> <p>H319 Causes serious eye irritation</p> <p>H317 May cause an allergic skin reaction</p> <p>H335 May cause respiratory irritation</p> <p>H400 Very toxic to aquatic life</p> <p>H410 Very toxic to aquatic life with long lasting effects</p>
Precautionary Statements	
Prevention	<p>Avoid breathing mist, vapours and spray.(P261)</p> <p>Wash thoroughly after handling.(P264)</p> <p>Use only outdoors or in a well-ventilated area(P271)</p>

Response	<p>Contaminated work clothing should not be allowed out of the workplace.(P272)</p> <p>Avoid release to the environment(P273)</p> <p>Wear protective gloves, eye protection and face protection.(P280)</p> <p>IF ON SKIN: Wash with plenty of soap and water(P302+P352)</p> <p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.(P304+P340)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing(P305+P351+P338)</p> <p>Call a POISON CENTER/doctor. If you feel unwell.(P312)</p> <p>Specific treatment.(P321)</p> <p>If skin irritation or rash occurs: Get medical advice/attention(P333+P313)</p> <p>If eye irritation persists: Get medical advice/attention(P337+P313)</p> <p>Take off contaminated clothing and wash it before reuse.(P362)</p> <p>Collect spillage(P391)</p>
Storage	<p>Store in a well-ventilated place. Keep container tightly closed.(P403+P233)</p> <p>Store locked up(P405)</p>
Disposal	<p>Dispose of contents/ container to an approved landfill.(P501)</p>

Section 3 – Composition and Information on Ingredients

Substances or mixture	Mixtures		
Ingredients name	Contents	Chemical formula	CAS RN
Aliphatic monomer	80–90%	Unknown	Confidential
aromatic monomer	1–10%	Unknown	Confidential
Polyester Oligomer	<5%	Unknown	Confidential
Photopolymerization initiator	<5%	Unknown	Confidential
Other	<1%	Unknown	Confidential
2,6-Di-tert-butyl-p-cresol (BHT)	<0.2%	Unknown	128-37-0

Section 4 – First Aid Measures

In case of inhalation	Call a doctor if you feel unwell.
In case of skin contact	<p>IF ON SKIN: Wash with plenty of soap and water.</p> <p>If skin irritation occurs: Get medical advice and attention.</p>
In case of eye contact	<p>IF IN EYES: Rinse cautiously with water for several minutes.</p> <p>Remove contact lenses, if present and easy to do. Continue rinsing.</p>
In case of ingestion	<p>Rinse mouth.</p> <p>IF SWALLOWED: Call a doctor if you feel unwell.</p>

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Section 5 – Fire Fighting Measures

Suitable extinguishing equipment	Dry chemical, alcohol-resistant foam, CO ₂ , sand.
Not suitable extinguishing media	Cylindric water.
Specific hazards arising from the chemical	Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.
Special protective equipment and precautions for fire fighters	Use goggles in combination with dust mask, and another protections as appropriate to situation.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use goggles in combination with dust mask, and another protections as appropriate to situation. Large spills :Evacuate area. Ensure adequate ventilation.
Environmental precautions	Do not discharge into the drains, surface waters or ground water directly.
Methods and materials for containment and cleaning up	small spill : absorb with material such as non-combustible materialwash thoroughly after handling Large spills: Dike spills and dispose of in safe area.

Section 7 – Handling and Storage

Handling	
Technical measures	Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Storage	
Suitable storage conditions	Store in well-ventilated place.

Section 8 – Exposure controls and personal protection

Control parameters

	ACGIH (TLV)	OSHA (PEL)	Occupational Exposure Standards
2,6-Di-tert-butyl-p-cresol (BHT)	TWA 2 mg/m ³ (IFV),STEL –	Not established	10 mg/m ³ TWA

Engineering controls	Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use explosion-proof electrical equipment and prevent from static electricity.
Individual protection measures, for example personal protective equipment (PPE)	
Eye and face protection	If necessary,wear protective eye protection.
Skin protection	If necessary,wear protective clothing.
Hand protection	If necessary,wear protective gloves.

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Respiratory protection

If necessary, wear respiratory protection.

Section 9 – Physical and Chemical Properties

Appearance	
Physical state	Liquid
Color	Yellow
Odor	Slight odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	106°C
Evaporation rate	No data available
Flammability (Solid, Gas)	No data available
Flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Non-water-soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

Section 10 – Stability and Reactivity

Reactivity	When heated, it decomposes to produce carbon monoxide and carbon dioxide.
Chemical stability	Stable under normal conditions of use.
Possibility of hazardous reactions	No information available
Conditions to avoid	Sunlight, heat, open flame, high temperature, sparks, static electricity, and other sources of ignition.
Incompatible materials	No information available
Hazardous decomposition products	Combustion produces carbon monoxide, carbon dioxide.

Section 11 – Toxicological Information

Acute toxicity (Oral)	Category 4: Other (converted value = 500mg/kg, source: Registered substances (ECHA)) Not classified: 2,6-Di-tert-butyl-p-cresol (BHT) (source: NITE), Aliphatic monomer (toxicity value = 5000mg/kg, source: Registered substances (ECHA)) Classification not possible: aromatic monomer (source: GHS Hazardous Chemical Information List), Photopolymerization initiator
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	(source: GHS Hazardous Chemical Information List) No data:Confidential (source: None)
Acute toxicity (Dermal)	Calculation result = 4887.6889849mg/kg. Classification result = Classification not possible. Not classified:2,6-Di-tert-butyl-p-cresol (BHT) (source: NITE) Classification not possible:Other (source: Registered substances (ECHA)), aromatic monomer (source: GHS Hazardous Chemical Information List), Aliphatic monomer (source: Registered substances (ECHA)), Photopolymerization initiator (source: GHS Hazardous Chemical Information List) No data:Confidential (source: None)
Acute toxicity (Inhalation : Gases)	Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Acute toxicity (Inhalation : Vapours)	Does not fall under gas based on GHS definitions.
Acute toxicity (Inhalation : dust/mist)	Unable to classify due to insufficient data.
Skin corrosion/ Irritation	Unable to classify due to insufficient data. Category 2:Aliphatic monomer (source: Registered substances (ECHA)), aromatic monomer (source: Registered substances (ECHA)) Not classified:2,6-Di-tert-butyl-p-cresol (BHT) (source: NITE) Classification not possible:Other (source: Registered substances (ECHA)), Photopolymerization initiator (source: GHS Hazardous Chemical Information List) No data:Confidential (source: None)
Serious eye damage/ irritation	Sum of Category 2 Concentration limit = 10%. Classification result = Category 2. Category 1:Other (source: Registered substances (ECHA)) Category 2:Aliphatic monomer (source: Registered substances (ECHA)) Category 2B:2,6-Di-tert-butyl-p-cresol (BHT) (source: NITE) Classification not possible:aromatic monomer (source: GHS Hazardous Chemical Information List), Photopolymerization initiator (source: GHS Hazardous Chemical Information List) No data:Confidential (source: None)
Respiratory Sensitization	Sum of Eye category 2 Concentration limit = 10%. Classification result = Category 2A.
Skin Sensitization	Unable to classify due to insufficient data. Category 1:Aliphatic monomer (source: Registered substances

	<p>(ECHA)), Photopolymerization initiator (source: GHS Hazardous Chemical Information List)</p> <p>Category 1B:aromatic monomer (source: Registered substances (ECHA))</p> <p>Classification not possible:2,6-Di-tert-butyl-p-cresol (BHT) (source: NITE), Other (source: Registered substances (ECHA))</p> <p>No data:Confidential (source: None)</p>
Germ cell mutagenicity	aromatic monomer $\geq 1\%$ Classification result = Category 1
Carcinogenicity	Unable to classify due to insufficient data.
Reproductive toxicity	<p>Unable to classify due to insufficient data.</p> <p>Category 2:2,6-Di-tert-butyl-p-cresol (BHT) (source: NITE)</p> <p>Classification not possible:Other (source: Registered substances (ECHA)), aromatic monomer (source: GHS Hazardous Chemical Information List), Aliphatic monomer (source: Registered substances (ECHA)), Photopolymerization initiator (source: GHS Hazardous Chemical Information List)</p> <p>No data:Confidential (source: None)</p>
	<p>Substances classified as hazardous are below the concentration limit. Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.</p>
	<p>Ingredients not contributing to classification:</p> <p>2,6-Di-tert-butyl-p-cresol (BHT) (category = Category 2, source: NITE)</p>
Reproductive toxicity, effects on or via lactation	Unable to classify due to insufficient data.
Specific target organ toxicity – Single exposure	<p>Category 1:2,6-Di-tert-butyl-p-cresol (BHT) (organ = nervous system, source: NITE)</p> <p>Category 3:Aliphatic monomer (organ = respiratory tract irritation, source: Registered substances (ECHA))</p> <p>Classification not possible:Other (source: Registered substances (ECHA)), aromatic monomer (source: GHS Hazardous Chemical Information List), Photopolymerization initiator (source: GHS Hazardous Chemical Information List)</p> <p>No data:Confidential (source: None)</p>
	<p>Sum of Category 3(respiratory tract irritation) Concentration limit = 20%. Classification result = Category 3(respiratory tract irritation).</p>
Specific target organ toxicity – Repeated exposure	<p>Category 2:2,6-Di-tert-butyl-p-cresol (BHT) (organ = liver, lung, source: NITE), Other (organ = spleen, liver, source: Registered</p>

substances (ECHA))

Classification not possible:aromatic monomer (source: GHS Hazardous Chemical Information List), Aliphatic monomer (source: Registered substances (ECHA)), Photopolymerization initiator (source: GHS Hazardous Chemical Information List)

No data:Confidential (source: None)

Substances classified as hazardous are below the concentration limit. Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.

Aspiration hazard

Unable to classify due to insufficient data.

Section 12 – Ecological Information

Hazardous to the Aquatic Environment – Acute Toxicity

Category 1:2,6-Di-tert-butyl-p-cresol (BHT) (source: NITE), Aliphatic monomer (source: Registered substances (ECHA))
Category 2:aromatic monomer (source: GHS Hazardous Chemical Information List)
Classification not possible:Other (source: Registered substances (ECHA)), Photopolymerization initiator (source: GHS Hazardous Chemical Information List)
No data:Confidential (source: None)

Hazardous to the Aquatic Environment – Chronic Toxicity

Category 1 x M factor \geq concentration limit(25%). Classification result = Category 1.

Category 1:2,6-Di-tert-butyl-p-cresol (BHT) (source: NITE), Aliphatic monomer (source: Registered substances (ECHA))
Category 2:aromatic monomer (source: Registered substances (ECHA))
Category 4:Photopolymerization initiator (source: GHS Hazardous Chemical Information List)
Classification not possible:Other (source: Registered substances (ECHA))
No data:Confidential (source: None)

Hazardous to the Ozone layer

Category 1 x M factor \geq concentration limit(25%). Classification result = Category 1.

Unable to classify due to insufficient data.

Section 13 – Disposal considerations

Residual waste

Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes. Dispose of waste in accordance with local,state and federal



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Contaminated container and packaging regulations.
Passed to a licensed waste contractor.
In case of disposal of empty containers, remove the content thoroughly.

Section 14 – Transport Information

International regulations

IMDG

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
Special Provision	2.10.2.7 *1

IATA

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
Special Provision	A197 *1

ADG

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III

*1 Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations — see UN Special Provision.

Section 15 – Regulatory Information

No main

regulation

Component Analysis – Inventory

2,6-Di-tert-butyl-p-cresol (BHT) (128-37-0)

TSCA – United States	ENCS – Japan	KECI Annex 1, 2 – Korea	IECSC – China	DSL/NDL – Canada	PICCS – Philippines	AICS – Australia	EINECS/ELINCS – European Union	TCSI – Taiwan	NZIoC – New Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Section 16 – Other information

Literature References

NITE GHS

EU CLP Regulation, AnnexVI

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



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regarding such information and recommendations and disclaims all liability for reliance thereon.

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