

Product Name	Reactive dye ink MLRC500 Black
Order No.	: MLR50-K-BJ
General Use	: Ink jet printing ink
Product Description	: Ink jet printing ink
SDS Number	: 037-W472630
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 Esta	ablished in USA
Company Name	: MIMAKI USA, INC.
Address	: 150 Satellite Boulevard NE, suite A, Suwanee, Georgia 30024,
	U.S.A.
Telephone No.	:+1-678-730-0170
Emergency Telephone No.	: +1 866 928 0789 (within United States only)
	$+1\ 215\ 207\ 0061$

# 2. Hazards Identification

[HCS Classification]	
Physical Hazards	
Flammable Liquids	: Not classified
Health Hazards	
Acute Toxicity – Oral	Category 4
Skin Corrosion / Irritation	Category 2
Eye Damage / Irritation	Category 2
Sensitization – Skin	Category 1
Specific Target Organ Toxicity	Category 3 (respiratory irritation)
(Single Exposure)	

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





Signal Word Warning

Hazard Statements

H302 - Harmful if swallowed.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

**Precautionary Statements** 

[Prevention]

- P261 Avoid breathing gas/mist.
- P264 Wash hands and eyes thoroughly after handling.
- P270 Do no eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

# [Response]

- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable forbreathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P332+P313 - If skin irritation 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.

[Storage]

P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.

[Disposal]

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

# 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Water	50-60	7732-18-5
2	Reactive Dye	1-10	Trade Secret
3	Additive B	1-10	Trade Secret
4	ADDITIVE E	1-10	Trade Secret



5	2-Pyrrolidone	1-10	616-45-5
6	Other	1-10	Trade Secret

# 4. First Aid Measures

Inhalation	: Move the exposed person to fresh air. Seek medical attention if	
	irritation or symptoms persist.	
Eye Contact	: Rinse immediately with plenty of water for 15 minutes holding the	
	eyelids open. Seek medical attention if irritation or symptoms persist.	
Skin Contact	: Remove contaminated clothing. Seek medical attention if irritation	
	or symptoms persist. Wash off immediately with plenty of soap and	
	water.	
Ingestion	: If swallowed, rinse mouth with water (only if the person is	
	conscious).	
	Drink 1 to 2 glasses of water. If you feel unwell, seek medical advice	
	(show the label where possible).	
General information	: See section 16 for further information.	

# 5. Fire Fighting Measures

Extinguishing Media	: Use appropriate water spray, foam, powder, carbon dioxide(CO2).
Advice for firefighters	: Wear suitable respiratory equipment when necessary.

# 6. Accidental Release Measures

Personal precautions,	: Wear suitable protective clothing, gloves and eye/face protection.
protective equipment and	
emergency procedures	
Environmental	: Avoid release to the environment.
precautions	
Methods and material for	: For large spills: Clean spillage area thoroughly with plenty of water.
containment and cleaning	For large spills: Water jet. Avoid raising dust. Flush down the drain
up	with plenty of water.

# 7. Handling and Storage



Precautions for Safe	: Occupational exposure controls.
Handling	Avoid contact with eyes and skin.
Conditions for Safe	Store in a cool, dry area. Keep containers tightly closed. Keep away
Storage, including any	from water.
Incompatibilities	

# 8. Exposure Controls / Personal Protection

Exposure Limit Values		
Additive B	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -

Exposure controls	
Individual protection	: Wear suitable protective equipment.
measures	
Respiratory	: Wear suitable respiratory equipment when necessary.
protection	
Occupational	: Wear suitable protective equipment.
exposure controls	

#### 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	- Physical State	: liquid
	- Color	: Black
Odor		: Characteristic
pH		: No data available
Boiling Point		: > 100 °C
Melting Point		: No data available
Freezing Point		: No data available
Flash Point		: > 110 °C (BS EN 1234/1960)
Auto ignition temperature		: No data available
Explosive		: No data available
Oxidizing		: No data available
Flammability Limits		: No data available

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Vapour Flammability	: No data available
Vapor Pressure	: No data available
Relative Density	: No data available
Fat Solubility	: No data available
Partition Coefficient (n-octanol / Water)	: No data available
Vapour density	: No data available
Viscosity	: < 10 mPas (Cone & Plate)
Evaporation Rate	: No data available
Other information	
Conductivity	: No data available
Gas group	: No data available
Surface tension	: No data available

# 10. Stability and Reactivity

Reactivity	: Stable under normal conditions.
Chemical Stability	: Stable under normal conditions.
Possibility of Hazardous	Avoid contact with: Reducing agents, Alkaline solution.
Reactions	
Conditions to Avoid	: None.
	Stable under normal conditions.
Incompatible Materials	: Stable under normal conditions.

# 11. Toxicological Information

Toxicological	: No data available
Information	
Information on toxicologic	al effects
Sensitization	: May cause sensitisation by skin contact.
Respiratory or skin	: May cause sensitisation by skin contact.
sensitisation	
Germ cell mutagenicity	: No mutagenic effects reported.
Repeated or prolonged	See section 16 for further information.
exposure	

# 12. Ecological Information

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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	: No data available.
	Aquatic toxicity against Bacteria, IC50/3hr 10 mg/l (OECD 209).
	Algae $EC50/72h = oECD 201$ , No Information.
	Daphnia $EC50/48h = oECD 202$ , No Information.
	Brachydanio Rerio LC50/96h = OECD 203, > 200 mg/L.
BOD5	: No data is available on this product.
COD	: No data is available on this product.
Metal content	: Metal content under the ETAD recommended limits.
	Chromium (Cr) None.
	Cobalt (Co) None.
	Copper (Cu) None.
Phosphorus content	: < 0.1%.
Biodegradability	: 82 % tested by OECD 302 B.
AOX	: < 1.0%.

# 13. Disposal Considerations

General information	: Dispose of in compliance with all local and national regulations.
Disposal methods	Can be incinerated if in compliance with local and national
	regulations.
	Can be sent to landfill if in compliance with local and national
	regulations.
Disposal of packaging	Can be incinerated if in compliance with local and national
	regulations.
	Empty containers can be sent to landfill after cleaning, if in
	compliance with local and national regulations.

#### 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

ADR/RID	$\div$ The product is not classified as dangerous for carriage.
IMDG	: The product is not classified as dangerous for carriage.



IATA

: The product is not classified as dangerous for carriage.

15. Regulatory Information	n
Safety, health and environ	mental regulations/legislation specific for the substance or mixture
Regulation by	: No data is available on this product.
Occupation Safety and	
Health Acts	
Regulation by Toxic	: No data is available on this product.
Chemicals Control Act	
Regulation by Safety	: No data is available on this product.
Control of Dangerous	
Substances Act	
Regulation by Wastes	: No data is available on this product.
Control Act	
Persistent Organic	: No data is available on this product.
Pollutants Control Act	
Japanese regulatory	: No data is available on this product.
information	
American Management	: No data available.
Information (OSHA	
Regulations)	
American Management	: No data available.
Information (CERCLA	
Regulations)	
American Management	: No data available.
Information (EPCRA	
302 Regulations)	
American Management	: No data available.
Information (EPCRA	
304 Regulations)	
American Management	: No data available.
Information (Material	
by Montreal Protocol)	
American Management	: No data available.
Information (Material	
by Rotterdam	

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Convention)

# 16. Other Information

Data sources	
The Chemical Database, The Department of Chemistry at the University of	
Akron(http://ull.chemistry.uakron.edu/erd) (Description(state))	
The Chemical Database, The Department of Chemistry at the University of	
Akron(http://ull.chemistry.uakron.edu/erd) (Colour)	
The Chemical Database, The Department of Chemistry at the University of	
Akron(http://ull.chemistry.uakron.edu/erd) (Odour)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Melting	
Point/Freezing Point)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Initial	
Boiling Point & Boiling Point Range)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Flash	
Point)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Upper /	
Lower Flammability or Explosive Limits)	
National Institute of Technology and Evaluation(NITE)	
(http://www.safe.nite.go.jp/ghs/h18_bunrui.html) (Vapor Pressure)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)	
(Solubility)	
International Programme on Chemical Safety(IPCS INCHEM)(http://www.inchem.org/) (Vapor	
Density)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Specific	
Gravity)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)	
(n-octanol / water partition coefficient)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis)	
(.Autoignition Temperature)	
The Chemical Database, The Department of Chemistry at the University of	
Akron(http://ull.chemistry.uakron.edu/erd) (Molecular Weight)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Oral)	
International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Dermal)	
OECD Screening Information Data Set(http://cs3-hq.oecd.org/scripts/hpv/) (Skin Corrosion or	



Irritation)

OECD Screening Information Data Set(http://cs3-hq.oecd.org/scripts/hpv/) (Serious Eye Damage or Irritation) OECD Screening Information Data Set(http://cs3-hg.oecd.org/scripts/hpv/) (Skin Sensitization) International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Skin Sensitization) International Uniform Chemical Information Database(IUCLID)(http://ecb.jrc.it/esis) (Mutagenicity) OECD Screening Information Data Set(http://cs3-hq.oecd.org/scripts/hpv/) (Germ Cell Mutagenicity) OECD Screening Information Data Set(http://cs3-hq.oecd.org/scripts/hpv/) (Reproductive Toxicity) International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Reproductive Toxicity) OECD Screening Information Data Set(http://cs3-hq.oecd.org/scripts/hpv/) (Specific Target Organ Toxicity (Single Exposure)) International Uniform Chemical Information Database(IUCLID)(http://ecb.jrc.it/esis) (Specific Target Organ Toxicity (Single Exposure)) International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Specific Target Organ Toxicity (Repeated Exposure)) OECD Screening Information Data Set(http://cs3-hq.oecd.org/scripts/hpv/) (Specific Target Organ Toxicity (Repeated Exposure)) SIDS (Fish) SIDS (Shellfish) SIDS (Algae) International Uniform ChemicaL Information Database(IUCLID)(http://ecb.jrc.it/esis) (Persistence) OECD Screening Information Data Set(http://cs3-hq.oecd.org/scripts/hpv/) (Biodegradability).

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.