

Safety Data Sheets

1. Identification

Product Name : Reactive dye ink MLRC500 Orange
Order No. : MLR50-OR-BJ
General Use : Ink jet printing ink
Product Description : Ink jet printing ink
SDS Number : 037-W472636
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,
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 : Category4

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

[Label Elements]

Symbol



Signal Word

Warning

Hazard Statements

H302 - Harmful if swallowed.

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Precautionary Statements

[Prevention]

P264 - Wash hands and eyes thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

[Response]

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

[Storage]

None.

[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 | 40-50 | 7732-18-5 |
| 2 | Additive B | 10-20 | Trade Secret |
| 3 | Reactive dye | 10-20 | Trade Secret |
| 4 | 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. |

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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, protective equipment and emergency procedures : Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions : Avoid release to the environment.

Methods and material for containment and cleaning up : For large spills: Clean spillage area thoroughly with plenty of water.
For large spills: Water jet. Avoid raising dust. Flush down the drain with plenty of water.

7. Handling and Storage

Precautions for Safe Handling : Occupational exposure controls.

Handling : Avoid contact with eyes and skin.

Conditions for Safe Storage, including any Incompatibilities : Store in a cool, dry area. Keep containers tightly closed. Keep away from water.

8. Exposure Controls / Personal Protection

Exposure Limit Values

| | | |
|------------|-------------------------|--|
| Additive B | WEL 8-hr limit ppm: - | WEL 8-hr limit mg/m ³ : 10 |
| | WEL 15 min limit ppm: - | WEL 15 min limit mg/m ³ : - |

Exposure controls

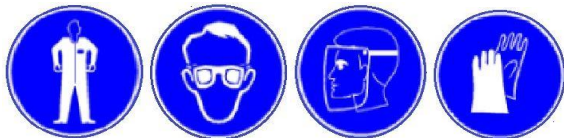
Individual protection measures : Wear suitable protective equipment.

Respiratory protection : Wear suitable respiratory equipment when necessary.

Occupational : Wear suitable protective equipment.

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exposure controls



9. Physical and Chemical Properties

Information on basic physical and chemical properties

| | | |
|---|------------------|------------------------------|
| Appearance | - Physical State | : liquid |
| | - Color | : Orange |
| 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 |
| 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. |

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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 toxicological 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

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/g (OECD 209).
Algae EC50/72h = OECD 201, > 1 mg/L.
Daphnia EC50/48h = OECD 202, > 100 mgf/L.
Fish 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 : > 80 % tested by OECD 302 B.

AOX : < 1.0%.

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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 | : 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

Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|--|---|
| Regulation by Occupation Safety and Health Acts | : No data is available on this product. |
| Regulation by Toxic Chemicals Control Act | : No data is available on this product. |
| Regulation by Safety Control of Dangerous Substances Act | : No data is available on this product. |
| Regulation by Wastes Control Act | : No data available. |
| Persistent Organic Pollutants Control Act | : No data available. |
| Japanese regulatory | : No data is available on this product. |

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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
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)

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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-hq.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))

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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.