SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Yellow

1. Identification of the substance/mixture and of the company/undertaking

Product Name: Disperse Dye Ink TYPE-A Yellow
Identification of the supplier: Konica Minolta IJ Textile Europe S.r.l.
Address: Via Milano 83, 22070 Bregnano (Como), Italy
Charge section: (TEL:+39 031 771070,FAX:+39 031 771964)
Identification of the supplier: Konica Minolta, Inc.
Address: 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN

Recommended use: Ink

2. Hazards identification

Hazard category
Serious eye damage/eye irritation Category 2
Specific target organ systemic toxicity following repeated exposure Category 2

LABEL ELEMENTS
Precautionary pictograms:

Signal word: Warning
Hazard Statement: H319: Causes serious eye irritation
H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:
Prevention See Section 4,7
Response See Section 4,7
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
<th>EINECS</th>
<th>REACH</th>
<th>Symbol of H code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>20-25</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, STOT RE 2, H373</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>≥1</td>
<td>34590-94-8</td>
<td>2521042</td>
<td>No registration number available.</td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>1-3</td>
<td>616-45-5</td>
<td>2104831</td>
<td>No registration number available.</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
<td>1-2.5</td>
<td>9014-85-1</td>
<td>5000225</td>
<td>No registration number available.</td>
<td>Eye Dam. 1, H318, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>0.01-0.05</td>
<td>2634-33-5</td>
<td>2201209</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Dam. 1, H318, Skin Sens. 1, H317, Aquatic Acute 1, H400, Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.

Skin Contact: Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.

Get Medical advice/attention if you feel unwell.

Eye Contact: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion: Get Medical advice/attention if you feel unwell.

Wash out mouth with water. Drink one or two glasses of water. Seek medical advice immediately and show this container or label. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
5. Fire-fighting measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.
Extinguishing Media to Avoid: No information.
Fire Fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See Section 8).
Environmental precautions: Ventilate closed spaces before entering.
Methods and materials for containment and cleaning up: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

7. Handling and storage

Handling
- Technical Measures: Wash hands thoroughly after handling.
- Ventilation requirements: Use with adequate ventilation.
- Precautions: No information.
- Precautions for safe handling: Do not breathe dust/fume/gas/mist/vapours/spray.

Storage
- Storage Conditions: Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).
- Safety adequate container materials: No information.

8. Exposure controls/personal protection

Appropriate engineering controls: Use process enclosures or local exhaust ventilation.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Yellow

Control parameters

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH TLV-STEL</th>
<th>EU - OEL TWA</th>
<th>EU - OEL STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
<td>20ppm, 52mg/m3</td>
<td>40ppm, 104mg/m3</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>100ppm</td>
<td>150ppm</td>
<td>50ppm, 308mg/m3</td>
<td>None established</td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- **Respiratory Protection:** An approved disposable dust respirator should be worn.
- **Hand protection:** Impervious gloves should be worn.
- **Eye/face protection:** Splash goggles should be worn.
- **Skin Protection:** Not required under normal conditions.

9. Physical and chemical properties

**Product**

- **Physical state:** Liquid
- **Form:** Liquid
- **Color:** Yellow
- **Odor:** Slight
- **Odor threshold:** No data.
- **pH:** 7.0 – 9.0
- **Melting point/freezing point:** No data.
- **Initial boiling point and boiling range:** No data.
- **Flash point:** >93.3(℃)Closed Cup
- **Auto-ignition temperature:** 398(℃)
- **Upper/lower flammability or explosive limits:** No data.
- **Vapour pressure:** No data.
- **Vapour density:** No data.
- **Evaporation rate:** No data.
- **Specific Gravity:** 1.0688(25℃)
SAFETY DATA SHEET

MSDS: 2011057012EU
Date Prepared: 2012/03/23
Date Revised: 2017/03/10

Product Name: Disperse Dye Ink TYPE-A Yellow

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Solubility</td>
<td>water: Miscible</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water:</td>
<td>No data</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>No data</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>No data</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Chemical stability: The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions: None reasonably foreseeable. Stable at normal temperatures and storage conditions.

Conditions to avoid: Avoid extreme heat. Do not freeze.

Incompatible materials: Acids, bases and strong oxidizing agents

Hazardous decomposition products: Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. Toxicological information

No Data

12. Ecological information

No Data

13. Disposal considerations

Disposal methods: When disposing of the waste, containers or recovered material, consult the European, national and/or local regulations for the proper disposal method.

14. Transport information

UN Class classification: None (Not a dangerous good under IATA or IMDG.)
UN number: Not applicable
Proper shipping name: Not applicable
Packing group: Not applicable
15. Regulatory information

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

Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

16. Other information

Full text of H phrases :
Acute Tox. : Acute toxicity
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitization
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
STOT RE : Specific target organ toxicity -repeated exposure
Aquatic Acute : Hazardous to the aquatic environment - acute
Aquatic Chronic : Hazardous to the aquatic environment - chronic
H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H373 : May cause damage to organs through prolonged or repeated exposure.
H400 : Very toxic to aquatic life.
H412 : Harmful to aquatic life with long lasting effects.

Disclaimer

The above information is believed to be accurate and represents the best information currently available to our company. However, our company make no warranty with respect to such information, and our company assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Magenta

1. Identification of the substance/mixture and of the company/undertaking

Product Name: Disperse Dye Ink TYPE-A Magenta
Identification of the supplier: Konica Minolta IJ Textile Europe S.r.I.
Address: Via Milano 83, 22070 Bregnano (Como), Italy
Charge section: (TEL:+39 031 771070,FAX:+39 031 771964)

Identification of the supplier: Konica Minolta, Inc.
Address: 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN

Recommended use: Ink

2. Hazards identification

<table>
<thead>
<tr>
<th>hazard category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity following</td>
<td>Category 2</td>
</tr>
<tr>
<td>repeated exposure</td>
<td></td>
</tr>
</tbody>
</table>

LABEL ELEMENTS

Precautionary pictograms:

Signal word: Warning
Hazard Statement: H319: Causes serious eye irritation
H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:
Prevention See Section 4,7
Response See Section 4,7
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
<th>EINECS</th>
<th>REACH</th>
<th>Symbol of H code</th>
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<tbody>
<tr>
<td>Ethylene glycol</td>
<td>20-25</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, STOT RE 2, H373</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>≥ 1</td>
<td>34590-94-8</td>
<td>2521042</td>
<td>No registration number available.</td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>1-3</td>
<td>616-45-5</td>
<td>2104831</td>
<td>No registration number available.</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
<td>1-2.5</td>
<td>9014-85-1</td>
<td>5000225</td>
<td>No registration number available.</td>
<td>Eye Dam. 1, H318, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>0.01-0.05</td>
<td>2634-33-5</td>
<td>2201209</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Dam. 1, H318, Skin Sens. 1, H317, Aquatic Acute 1, H400, Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.
Skin Contact: Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention. Get Medical advice/attention if you feel unwell.
Eye Contact: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion: Wash out mouth with water. Drink one or two glasses of water. Seek medical advice immediately and show this container or label. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
5. Fire-fighting measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.
Extinguishing Media to Avoid: No information.
Fire Fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See Section 8).
Environmental precautions: Ventilate closed spaces before entering.
Methods and materials for containment and cleaning up: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

7. Handling and storage

Handling

Technical Measures: Wash hands thoroughly after handling.
Ventilation requirements: Use with adequate ventilation.
Precautions: No information.
Precautions for safe handling: Do not breathe dust/fume/gas/mist/vapours/spray.

Storage

Storage Conditions: Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).
Safety adequate container materials: No information.

8. Exposure controls/personal protection

Appropriate engineering controls: Use process enclosures or local exhaust ventilation.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Magenta

Control parameters

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH</th>
<th>EU - OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TLV-TWA</td>
<td>TLV-STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>100ppm</td>
<td>150ppm</td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>None established</td>
<td>None established</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Splash goggles should be worn.
- Skin Protection: Not required under normal conditions.

9. Physical and chemical properties

Product

- Physical state: Liquid
- Form: Liquid
- Color: Red
- Odor: Slight
- Odor threshold: No data.
- pH: 7.7 – 8.3
- Melting point/freezing point: No data.
- Initial boiling point and boiling range: No data.
- Flash point: >93.3°C (Closed Cup)
- Auto-ignition temperature: 398°C
- Upper/lower flammability or explosive limits: No data.
- Vapour pressure: No data.
- Vapour density: No data.
- Evaporation rate: No data.
- Specific Gravity: 1.1
Product Name: Disperse Dye Ink TYPE-A Magenta

10. Stability and reactivity

- Chemical stability: The product is chemically stable under recommended conditions of storage, use and temperature.
- Possibility of hazardous reactions: None reasonably foreseeable. Stable at normal temperatures and storage conditions.
- Conditions to avoid: Avoid extreme heat. Do not freeze.
- Incompatible materials: Acids, bases and strong oxidizing agents
- Hazardous decomposition products: No decomposition if stored and applied as directed. Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. Toxicological information

No Data

12. Ecological information

No Data

13. Disposal considerations

Disposal methods: When disposing of the waste, containers or recovered material, consult the European, national and/or local regulations for the proper disposal method.

14. Transport information

UN Class classification: None (Not a dangerous good under IATA or IMDG.)
UN number: Not applicable
Proper shipping name: Not applicable
Packing group: Not applicable
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Magenta

15. Regulatory information

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

Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

16. Other information

Full text of H phrases:

Acute Tox.: Acute toxicity
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitization
Eye Dam.: Serious eye damage
Eye Irrit.: Eye irritation
STOT RE: Specific target organ toxicity -repeated exposure
Aquatic Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic
H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

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1. Identification of the substance/mixture and of the company/undertaking

Product Name: Disperse Dye Ink TYPE-A Cyan
Identification of the supplier: Konica Minolta IJ Textile Europe S.r.l.
Address: Via Milano 83, 22070 Bregnano (Como), Italy
Charge section: (TEL:+39 031 771070,FAX:+39 031 771964)
Identification of the supplier: Konica Minolta, Inc.
Address: 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN
Recommended use: Ink

2. Hazards identification

hazard category
| Serious eye damage/eye irritation          | Category 2 |
| Specific target organ systemic toxicity following repeated exposure | Category 2 |

LABEL ELEMENTS
Precautionary pictograms:

Signal word: Warning
Hazard Statement: H319: Causes serious eye irritation
H373: May cause damage to organs through prolonged or repeated exposure
Precautionary Statements:
Prevention See Section 4.7
Response See Section 4.7

3. Composition/information on ingredients

Substance/Mixture: Mixture
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Cyan

Ingredients and Concentration

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
<th>EINECS</th>
<th>REACH</th>
<th>Symbol of H code</th>
</tr>
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<tbody>
<tr>
<td>Ethylene glycol</td>
<td>20-25</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, STOT RE 2, H373</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>≥1</td>
<td>34590-94-8</td>
<td>2521042</td>
<td>No registration number available.</td>
<td></td>
</tr>
<tr>
<td>C.I.Disperse Blue 60</td>
<td>1-10</td>
<td>12217-80-0</td>
<td>2354027</td>
<td>No registration number available.</td>
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</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>1-3</td>
<td>616-45-5</td>
<td>2104831</td>
<td>No registration number available.</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
<td>1-2.5</td>
<td>9014-85-1</td>
<td>5000225</td>
<td>No registration number available.</td>
<td>Eye Dam. 1, H318, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>0.01-0.05</td>
<td>2634-33-5</td>
<td>2201209</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Dam. 1, H318, Skin Sens. 1, H317, Aquatic Acute 1, H400, Aquatic Chronic 3, H412</td>
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4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.

Skin Contact: Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.
Get Medical advice/attention if you feel unwell.

Eye Contact: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion: Get Medical advice/attention if you feel unwell.
Wash out mouth with water. Drink one or two glasses of water. Seek medical advice immediately and show this container or label. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
5. Fire-fighting measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.
Extinguishing Media to Avoid: No information.
Fire Fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See Section 8).
Environmental precautions: Ventilate closed spaces before entering.
Methods and materials for containment and cleaning up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. Handling and storage

Handling
- Technical Measures: Wash hands thoroughly after handling.
- Ventilation requirements: Use with adequate ventilation.
- Precautions: No information.
- Precautions for safe handling: Do not breathe dust/fume/gas/mist/vapours/spray.

Storage
- Storage Conditions: Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).
- Safety adequate container materials: No information.

8. Exposure controls/personal protection

Appropriate engineering controls: Use process enclosures or local exhaust ventilation.
Control parameters

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH</th>
<th>EU - OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TLV-TWA</td>
<td>TLV-STE</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>100ppm</td>
<td>150ppm</td>
</tr>
<tr>
<td>C.I. Disperse Blue 60</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>None established</td>
<td>None established</td>
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<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
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<td>None established</td>
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<tr>
<td>1,2-Benzothiazol-3(2H)-one</td>
<td>None established</td>
<td>None established</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Splash goggles should be worn.
- Skin Protection: Not required under normal conditions.

9. Physical and chemical properties

Product

- Physical state: Liquid
- Form: Liquid
- Color: Blue
- Odor: Slight
- Odor threshold: No data.
- pH: 7.7 – 8.3
- Melting point/freezing point: No data.
- Initial boiling point and boiling range: No data.
- Flash point: >93.3°C Closed Cup
- Auto-ignition temperature: 398°C
- Upper/lower flammability or explosive limits: No data.
- Vapour pressure: No data.
- Vapour density: No data.
- Evaporation rate: No data.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Cyan

Specific Gravity: 1.1
Solubility: water : Miscible.
Partition coefficient: n-octanol/water: No data.
Decomposition temperature: No data.
Viscosity: No data.
Kinematic Viscosity: No data.

10. Stability and reactivity

The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions:
None reasonably foreseeable. Stable at normal temperatures and storage conditions.

Conditions to avoid:
Avoid extreme heat. Do not freeze.

Incompatible materials:
Acids, bases and strong oxidizing agents

Hazardous decomposition products:
No decomposition if stored and applied as directed.
Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. Toxicological information

No Data

12. Ecological information

No Data

13. Disposal considerations

When disposing of the waste, containers or recovered material, consult the European, national and/or local regulations for the proper disposal method.

14. Transport information

UN Class: None (Not a dangerous good under IATA or IMDG.)
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Cyan

15. Regulatory information

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

Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

16. Other information

Full text of H phrases:
- Acute Tox.: Acute toxicity
- Skin Irrit.: Skin irritation
- Skin Sens.: Skin sensitization
- Eye Dam.: Serious eye damage
- Eye Irrit.: Eye irritation
- STOT RE: Specific target organ toxicity -repeated exposure
- Aquatic Acute: Hazardous to the aquatic environment - acute
- Aquatic Chronic: Hazardous to the aquatic environment - chronic
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

Disclaimer

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1. Identification of the substance/mixture and of the company/undertaking

Product Name: Disperse Dye Ink TYPE-A Black
Identification of the supplier: Konica Minolta IJ Textile Europe S.r.l.
Address: Via Milano 83, 22070 Bregnano (Como), Italy
Charge section: (TEL:+39 031 771070,FAX:+39 031 771964)
Identification of the supplier: Konica Minolta, Inc.
Address: 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN
Recommended use: Ink

2. Hazards identification

<table>
<thead>
<tr>
<th>hazard category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity following repeated exposure</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

LABEL ELEMENTS

Precautionary pictograms:

Signal word: Warning
Hazard Statement: H319: Causes serious eye irritation
H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:
Prevention See Section 4.7
Response See Section 4.7
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
<th>EINECS</th>
<th>REACH</th>
<th>Symbol of H code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>10-20</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, STOT RE 2, H373</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>≧1</td>
<td>34590-94-8</td>
<td>2521042</td>
<td>No registration number available.</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>3-10</td>
<td>616-45-5</td>
<td>2104831</td>
<td>No registration number available.</td>
<td>Eye Dam. 1, H318, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decylene-4,7-diol (2:1)</td>
<td>1-2.5</td>
<td>9014-85-1</td>
<td>5000225</td>
<td>No registration number available.</td>
<td>Eye Dam. 1, H318, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>0.01-0.05</td>
<td>2634-33-5</td>
<td>2201209</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Dam. 1, H318, Skin Sens. 1, H317, Aquatic Acute 1, H400, Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.
Skin Contact: Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.
Eye Contact: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Ingestion: Get Medical advice/attention if you feel unwell.
Wash out mouth with water. Drink one or two glasses of water. Seek medical advice immediately and show this container or label. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
5. **Fire-fighting measures**

**Suitable Extinguishing Media:** Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.

**Extinguishing Media to Avoid:** No information.

**Fire Fighting:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.

6. **Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Wear personal protective equipment (See Section 8).

**Environmental precautions:** Ventilate closed spaces before entering.

**Methods and materials for containment and cleaning up:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. **Handling and storage**

**Handling**

- **Technical Measures:** Wash hands thoroughly after handling.
- **Ventilation requirements:** Use with adequate ventilation.
- **Precautions:** No information.
- **Precautions for safe handling:** Do not breathe dust/fume/gas/mist/vapours/spray.

**Storage**

- **Storage Conditions:** Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).
- **Safety adequate container materials:** No information.

8. **Exposure controls/personal protection**

**Appropriate engineering controls:** Use process enclosures or local exhaust ventilation.
### 9. Physical and chemical properties

Product

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data.</td>
</tr>
<tr>
<td>pH</td>
<td>Approx.8</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data.</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;93.3(°C)Closed Cup</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>398(°C)</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.1</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Black

10. Stability and reactivity

Chemical stability: The product is chemically stable under recommended conditions of storage, use and temperature.
Possibility of hazardous reactions: None reasonably foreseeable. Stable at normal temperatures and storage conditions.
Conditions to avoid: Avoid extreme heat. Do not freeze.
Incompatible materials: Acids, bases and strong oxidizing agents
Hazardous decomposition products: Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. Toxicological information

Product Mutagenicity: Ames Test: Positive

12. Ecological information

No Data

13. Disposal considerations

Disposal methods: When disposing of the waste, containers or recovered material, consult the European, national and/or local regulations for the proper disposal method.

14. Transport information

UN Class UN classification: None (Not a dangerous good under IATA or IMDG.)
UN number: Not applicable
Proper shipping name: Not applicable
Packing group: Not applicable
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Black

15. Regulatory information

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

Other regulations:
- Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
- Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
- Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

16. Other information

Full text of H phrases:
- Acute Tox.: Acute toxicity
- Skin Irrit.: Skin irritation
- Skin Sens.: Skin sensitization
- Eye Dam.: Serious eye damage
- Eye Irrit.: Eye irritation
- STOT RE: Specific target organ toxicity -repeated exposure
- Aquatic Acute: Hazardous to the aquatic environment - acute
- Aquatic Chronic: Hazardous to the aquatic environment - chronic
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

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1. Identification of the substance/mixture and of the company/undertaking

Product Name: Disperse Dye Ink TYPE-A Violet
Identification of the supplier: Konica Minolta IJ Textile Europe S.r.l.
Address: Via Milano 83, 22070 Bregnano (Como), Italy
Charge section: (TEL:+39 031 771070,FAX:+39 031 771964)

Identification of the supplier: Konica Minolta, Inc.
Address: 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN

Recommended use: Ink

2. Hazards identification

<table>
<thead>
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<tbody>
<tr>
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<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity following repeated exposure</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

LABEL ELEMENTS

Precautionary pictograms:

Signal word: Warning
Hazard Statement:
H319: Causes serious eye irritation
H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:
Prevention See Section 4.7
Response See Section 4.7
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/Mixture:</th>
<th>Mixture</th>
</tr>
</thead>
</table>

Ingredients and Concentration

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
<th>EINECS</th>
<th>REACH</th>
<th>Symbol of H code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>20-25</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, STOT RE 2, H373</td>
</tr>
<tr>
<td>(2-methoxymethyleneoxy)propanol</td>
<td>≧ 1</td>
<td>34590-94-8</td>
<td>2521042</td>
<td>No registration number available.</td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>1-3</td>
<td>616-45-5</td>
<td>2104831</td>
<td>No registration number available.</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
<td>1-2.5</td>
<td>9014-85-1</td>
<td>5000225</td>
<td>No registration number available.</td>
<td>Eye Dam. 1, H318, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>0.01-0.05</td>
<td>2634-33-5</td>
<td>2201209</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Dam. 1, H318, Skin Sens. 1, H317, Aquatic Acute 1, H400, Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell. Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.

Skin Contact: Get Medical advice/attention if you feel unwell.

Eye Contact: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get Medical advice/attention if you feel unwell. Wash out mouth with water. Drink one or two glasses of water. Seek medical advice immediately and show this container or label. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
5. Fire-fighting measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.
Extinguishing Media to Avoid: No information.
Fire Fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See Section 8).
Environmental precautions: Ventilate closed spaces before entering.
Methods and materials for containment and cleaning up: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

7. Handling and storage

Handling
- Technical Measures: Wash hands thoroughly after handling.
- Ventilation requirements: Use with adequate ventilation.
- Precautions: No information.
- Precautions for safe handling: Do not breathe dust/fume/gas/mist/vapours/spray.

Storage
- Storage Conditions: Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).
- Safety adequate container materials: No information.

8. Exposure controls/personal protection

Appropriate engineering controls: Use process enclosures or local exhaust ventilation.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Violet

Control parameters

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH</th>
<th>EU - OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TLV-TWA</td>
<td>TLV- STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm, 50ppm, 10mg/m³</td>
<td>20ppm, 52mg/m³</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>100ppm, 150ppm, 50ppm, 308mg/m³</td>
<td>None established</td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>None established</td>
<td>None established</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Splash goggles should be worn.
- Skin Protection: Not required under normal conditions.

9. Physical and chemical properties

Product

Physical state: Liquid
Form: Liquid
Color: Violet
Odor: Slight
Odor threshold: No data.
pH: Approx.8
Melting point/freezing point: No data.
Initial boiling point and boiling range: No data.
Flash point: >93.3(°C)Closed Cup
Auto-ignition temperature: 398(°C)
Upper/lower flammability or explosive limits: No data.
Vapour pressure: No data.
Vapour density: No data.
Evaporation rate: No data.
Specific Gravity: 1.1
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Violet

| Solubility:  | water: Miscible. |
| Partition coefficient: n-octanol/water: | No data. |
| Decomposition temperature: | No data. |
| Viscosity | No data. |
| Kinematic Viscosity | No data. |

10. Stability and reactivity

Chemical stability: The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions: None reasonably foreseeable. Stable at normal temperatures and storage conditions.

Conditions to avoid: Avoid extreme heat. Do not freeze.

Incompatible materials: Acids, bases and strong oxidizing agents

Hazardous decomposition products: No decomposition if stored and applied as directed. Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. Toxicological information

No Data

12. Ecological information

No Data

13. Disposal considerations

When disposing of the waste, containers or recovered material, consult the European, national and/or local regulations for the proper disposal method.

14. Transport information

UN Class: None (Not a dangerous good under IATA or IMDG.)
UN classification: Not applicable
UN number: Not applicable
Proper shipping name: Not applicable
Packing group: Not applicable
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Violet

15. Regulatory information

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

Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

16. Other information

Full text of H phrases:

Acute Toxicity: Acute toxicity
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitization
Eye Dam.: Serious eye damage
Eye Irrit.: Eye irritation
STOT RE: Specific target organ toxicity -repeated exposure
Aquatic Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic
H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

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SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Pink

1. Identification of the substance/mixture and of the company/undertaking

Product Name: Disperse Dye Ink TYPE-A Pink
Identification of the supplier: Konica Minolta IJ Textile Europe S.r.l.
Address: Via Milano 83, 22070 Bregnano (Como), Italy
Charge section: (TEL:+39 031 771070,FAX:+39 031 771964)
Info.ij@konicaminolta.it| www.konicaminolta.com

Identification of the supplier: Konica Minolta, Inc.
Address: 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN

Recommended use: Ink

2. Hazards identification

hazard category

Specific target organ systemic toxicity following repeated exposure
Category 2

LABEL ELEMENTS

Precautionary pictograms:

Signal word: Warning
Hazard Statement: H373: May cause damage to organs through prolonged or repeated exposure
Precautionary Statements: Prevention See Section 4,7
Response See Section 4,7
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
<th>EINECS</th>
<th>REACH</th>
<th>Symbol of H code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>10-20</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, STOT RE 2, H373</td>
</tr>
<tr>
<td>(2-methoxymethyleneoxy)propanol</td>
<td>≥1</td>
<td>34590-94-8</td>
<td>2521042</td>
<td>No registration number available.</td>
<td></td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>0.01-0.05</td>
<td>2634-33-5</td>
<td>2201209</td>
<td>No registration number available.</td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.
Skin Contact: Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.
Eye Contact: Get Medical advice/attention if you feel unwell.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion: Get Medical advice/attention if you feel unwell.
Wash out mouth with water. Drink one or two glasses of water. Seek medical advice immediately and show this container or label. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.
Extinguishing Media to Avoid: No information.
Fire Fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.
6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:
- Wear personal protective equipment (See Section 8).

Environmental precautions:
- Ventilate closed spaces before entering.

Methods and materials for containment and cleaning up:
- No information.
- Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. Handling and storage

Handling
- Technical Measures:
  - Avoid contact with eyes, skin and clothing. Wear personal protective equipment (See Section 8). Wash thoroughly after handling.
  - Use with adequate ventilation.
  - Do not breathe dust/fume/gas/mist/vapours/spray.

Ventilation requirements:
- No information.

Precautions for safe handling:
- No information.

Storage
- Storage Conditions:
  - Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).

Safety adequate container materials:
- No information.

8. Exposure controls/personal protection

Appropriate engineering controls:
- Use process enclosures or local exhaust ventilation.

Control parameters

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH</th>
<th>EU - OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TLV-TWA</td>
<td>TLV- STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
<tr>
<td>(2-methoxymethylthoxy)propanol</td>
<td>100ppm</td>
<td>150ppm</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>None established</td>
<td>None established</td>
</tr>
</tbody>
</table>
### Personal Protective Equipment

<table>
<thead>
<tr>
<th>Protection</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory Protection</td>
<td>Not required under normal conditions.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Impervious gloves should be worn.</td>
</tr>
<tr>
<td>Eye/face protection</td>
<td>Splash goggles or safety glasses should be worn.</td>
</tr>
<tr>
<td>Skin Protection</td>
<td>Not required under normal conditions.</td>
</tr>
</tbody>
</table>

### 9. Physical and chemical properties

#### Product

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>light red</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data.</td>
</tr>
<tr>
<td>pH</td>
<td>Approx. 8</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data.</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93.3°C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>398°C</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible water</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>No data.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data.</td>
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<tr>
<td>Viscosity</td>
<td>No data.</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>No data.</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

#### Chemical stability:
The product is chemically stable under recommended conditions of storage, use and temperature.

#### Possibility of hazardous reactions:
None reasonably foreseeable. Stable at normal temperatures and storage conditions.

#### Conditions to avoid:
Avoid extreme heat. Do not freeze.

#### Incompatible materials:
Acids, bases and strong oxidizing agents

#### Hazardous decomposition products:
No decomposition if stored and applied as directed.
Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Pink

11. Toxicological information

No Data

12. Ecological information

No Data

13. Disposal considerations

Disposal methods:
When disposing of the waste, containers or recovered material, consult the European, national and/or local regulations for the proper disposal method.

14. Transport information

UN Class No Data
UN classification: None (Not a dangerous good under IATA or IMDG.)
UN number: Not applicable
Proper shipping name: Not applicable
Packing group: Not applicable

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Other regulations:
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for this mixture.
16. Other information

Full text of H phrases :

- Acute Tox. : Acute toxicity
- Skin Irrit. : Skin irritation
- Skin Sens. : Skin sensitization
- Eye Dam. : Serious eye damage
- STOT RE : Specific target organ toxicity -repeated exposure
- Aquatic Acute : Hazardous to the aquatic environment - acute
- Aquatic Chronic : Hazardous to the aquatic environment - chronic
- H302 : Harmful if swallowed.
- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H373 : May cause damage to organs through prolonged or repeated exposure.
- H400 : Very toxic to aquatic life.
- H412 : Harmful to aquatic life with long lasting effects.

Disclaimer

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1. Identification of the substance/mixture and of the company/undertaking

Product Name: Disperse Dye Ink TYPE-A Sky
Identification of the supplier: Konica Minolta IJ Textile Europe S.r.l.
Address: Via Milano 83, 22070 Bregnano (Como), Italy
Charge section: (TEL:+39 031 771070, FAX:+39 031 771964)
Identification of the supplier: Konica Minolta, Inc.
Address: 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN
Recommended use: Ink

2. Hazards identification

Hazard category

Specific target organ systemic toxicity following repeated exposure
Category 2

LABEL ELEMENTS
Precautionary pictograms:

Signal word: Warning
Hazard Statement: H373: May cause damage to organs through prolonged or repeated exposure
Precautionary Statements:
Prevention See Section 4,7
Response See Section 4,7
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
<th>EINECS</th>
<th>REACH</th>
<th>Symbol of H code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>20-25</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, STOT RE 2, H373</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>≥1</td>
<td>34590-94-8</td>
<td>2521042</td>
<td>No registration number available.</td>
<td></td>
</tr>
<tr>
<td>C.I.Disperse Blue 60</td>
<td>1-10</td>
<td>12217-80-0</td>
<td>2354027</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>0.01-0.05</td>
<td>2634-33-5</td>
<td>2201209</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Dam. 1, H315, Skin Sens. 1, H317, Aquatic Acute 1, H400, Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.

Skin Contact: Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.

Eye Contact: Get Medical advice/attention if you feel unwell.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion: Get Medical advice/attention if you feel unwell.

Wash out mouth with water. Drink one or two glasses of water. Seek medical advice immediately and show this container or label. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
5. Fire-fighting measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.
Extinguishing Media to Avoid: No information.
Fire Fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See Section 8).
Environmental precautions: Ventilate closed spaces before entering.
Methods and materials for containment and cleaning up: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

7. Handling and storage

Handling
Technical Measures: Avoid contact with eyes, skin and clothing. Wear personal protective equipment (See Section 8). Wash thoroughly after handling.
Ventilation requirements: Use with adequate ventilation.
Precautions: No information.
Precautions for safe handling: Do not breathe dust/fume/gas/mist/vapours/spray.

Storage
Storage Conditions: Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).
Safety adequate container materials: No information.

8. Exposure controls/personal protection

Appropriate engineering controls: Use process enclosures or local exhaust ventilation.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Sky

Control parameters

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH</th>
<th>EU - OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TLV-TWA</td>
<td>TLV- STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>100ppm</td>
<td>150ppm</td>
</tr>
<tr>
<td>C.I. Disperse Blue 60</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>None established</td>
<td>None established</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Splash goggles or safety glasses should be worn.
- Skin Protection: Not required under normal conditions.

9. Physical and chemical properties

Product

- Physical state: Liquid
- Form: Liquid
- Color: Blue
- Odor: Slight
- Odor threshold: No data.
- pH: 7.0 – 9.0
- Melting point/freezing point: No data.
- Initial boiling point and boiling range: No data.
- Flash point: >93.3(°C) Closed Cup
- Auto-ignition temperature: 398(°C)
- Upper/lower flammability or explosive limits: No data.
- Vapour pressure: No data.
- Vapour density: No data.
- Evaporation rate: No data.
- Specific Gravity: 1.1
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Sky

10. Stability and reactivity

Chemical stability: The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions: None reasonably foreseeable. Stable at normal temperatures and storage conditions.

Conditions to avoid: Avoid extreme heat. Do not freeze.

Incompatible materials: Acids, bases and strong oxidizing agents

Hazardous decomposition products: Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. Toxicological information

No Data

12. Ecological information

No Data

13. Disposal considerations

When disposing of the waste, containers or recovered material, consult the European, national and/or local regulations for the proper disposal method.

14. Transport information

UN Class: None (Not a dangerous good under IATA or IMDG.)

UN classification:

UN number: Not applicable

Proper shipping name: Not applicable

Packing group: Not applicable
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Sky

15. Regulatory information

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

Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

16. Other information

Full text of H phrases:

Acute Tox. : Acute toxicity
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitization
Eye Dam. : Serious eye damage
STOT RE : Specific target organ toxicity -repeated exposure
Aquatic Acute : Hazardous to the aquatic environment - acute
Aquatic Chronic : Hazardous to the aquatic environment - chronic
H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H373 : May cause damage to organs through prolonged or repeated exposure.
H400 : Very toxic to aquatic life.
H412 : Harmful to aquatic life with long lasting effects.

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1. Identification of the substance/mixture and of the company/undertaking

Product Name: Disperse Dye Ink TYPE-A Gray
Identification of the supplier: Konica Minolta IJ Textile Europe S.r.l.
Address: Via Milano 83, 22070 Bregnano (Como), Italy
Charge section: (TEL:+39 031 771070,FAX:+39 031 771964)
Info.ij@konicanolta.it| www.konicaminolta.com

Identification of the supplier: Konica Minolta, Inc.
Address: 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN

Recommended use: Ink

2. Hazards identification

hazard category Hazard Statement: Specific target organ systemic toxicity following repeated exposure Category 2

CATEGORY 2
Specific target organ systemic toxicity following repeated exposure

LABEL ELEMENTS
Precautionary pictograms:

Signal word: Warning
Hazard Statement: H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:
Prevention See Section 4,7
Response See Section 4,7

3. Composition/information on ingredients

Substance/Mixture: Mixture
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Gray

Ingredients and Concentration

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
<th>EINECS</th>
<th>REACH</th>
<th>Symbol of H code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>20-25</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, STOT RE 2, H373</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>≥1</td>
<td>34590-94-8</td>
<td>2521042</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, Skin Irrit. 2, H315, Skin Dam. 1, H318, Skin Sens. 1, H317, Aquatic Acute 1, H400, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>1,2-Benzothiazol-3(2H)-one</td>
<td>0.01-0.05</td>
<td>2634-33-5</td>
<td>2201209</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, Skin Irrit. 2, H315, Skin Dam. 1, H318, Skin Sens. 1, H317, Aquatic Acute 1, H400, Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.

Skin Contact: Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.

Eye Contact: Get Medical advice/attention if you feel unwell.

Ingestion: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wash out mouth with water. Drink one or two glasses of water. Seek medical advice immediately and show this container or label. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.

Extinguishing Media to Avoid: No information.

Fire Fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.
6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See Section 8).

Environmental precautions: Ventilate closed spaces before entering.

Methods and materials for containment and cleaning up: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. Handling and storage

Handling

Technical Measures: Avoid contact with eyes, skin and clothing. Wear personal protective equipment (See Section 8). Wash thoroughly after handling.

Ventilation requirements: Use with adequate ventilation.

Precautions: No information.

Precautions for safe handling: Do not breathe dust/fume/gas/mist/vapours/spray.

Storage

Storage Conditions: Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).

Safety adequate container materials: No information.

8. Exposure controls/personal protection

Appropriate engineering controls: Use process enclosures or local exhaust ventilation.

Control parameters

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH</th>
<th>EU - OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TLV-TWA</td>
<td>TLV-STEIL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>100ppm</td>
<td>150ppm</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>None established</td>
<td>None established</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Gray

9. Physical and chemical properties

Product

Physical state: Liquid
Form: Liquid
Color: Black
Odor: Slight
Odor threshold: No data.
P: 7.0 – 9.0
Melting point/freezing point: No data.
Initial boiling point and boiling range:
Flash point: >93.3(℃) Closed Cup
Auto-ignition temperature: 398(℃)
Upper/lower flammability or explosive limits: No data.
Vapour pressure: No data.
Vapour density: No data.
Evaporation rate: No data.
Specific Gravity: 1.0580(25℃)
Solubility: Water: Miscible.
Partition coefficient: n-octanol/water: No data.
Decomposition temperature: No data.
Viscosity: No data.
Kinematic Viscosity: No data.

10. Stability and reactivity

Chemical stability: The product is chemically stable under recommended conditions of storage, use and temperature.
Possibility of hazardous reactions: None reasonably foreseeable. Stable at normal temperatures and storage conditions.
Conditions to avoid: Avoid extreme heat. Do not freeze.
Incompatible materials: Acids, bases and strong oxidizing agents
Hazardous decomposition products: No decomposition if stored and applied as directed. Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Gray

11. Toxicological information
No Data

12. Ecological information
No Data

13. Disposal considerations
Disposal methods: When disposing of the waste, containers or recovered material, consult the European, national and/or local regulations for the proper disposal method.

14. Transport information
UN Class UN classification : None (Not a dangerous good under IATA or IMDG.)
UN number : Not applicable
Proper shipping name : Not applicable
Packing group : Not applicable

15. Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for this mixture.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Gray

16. Other information

Full text of H phrases :

- Acute Tox.: Acute toxicity
- Skin Irrit.: Skin irritation
- Skin Sens.: Skin sensitization
- Eye Dam.: Serious eye damage
- STOT RE: Specific target organ toxicity - repeated exposure
- Aquatic Acute: Hazardous to the aquatic environment - acute
- Aquatic Chronic: Hazardous to the aquatic environment - chronic
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

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SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Black

1. Identification of the substance/mixture and of the company/undertaking

Product Name: Disperse Dye Ink TYPE-A Black
Identification of the supplier: Konica Minolta IJ Textile Europe S.r.l.
Address: Via Milano 83, 22070 Bregnano (Como), Italy
Charge section: (TEL:+39 031 771070, FAX:+39 031 771964)

Identification of the supplier: Konica Minolta, Inc.
Address: 2-7-2, Marunouchi, Chiyoda-ku, Tokyo, 100-7015, JAPAN

Recommended use: Ink

2. Hazards identification

<table>
<thead>
<tr>
<th>hazard category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity following repeated exposure</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

LABEL ELEMENTS
Precautionary pictograms:

Signal word: Warning
Hazard Statement: H319: Causes serious eye irritation
H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statements:
Prevention See Section 4.7
Response See Section 4.7
3. Composition/information on ingredients

Substance/Mixture: Mixture

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration wt.%</th>
<th>CAS#</th>
<th>EINECS</th>
<th>REACH</th>
<th>Symbol of H code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>10-20</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, STOT RE 2, H373</td>
</tr>
<tr>
<td>(2-methoxymethyleneoxy)propanol</td>
<td>≧ 1</td>
<td>34590-94-8</td>
<td>2521042</td>
<td>No registration number available.</td>
<td></td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>3-10</td>
<td>616-45-5</td>
<td>2104831</td>
<td>No registration number available.</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
<td>1-2.5</td>
<td>9014-85-1</td>
<td>5000225</td>
<td>No registration number available.</td>
<td>Eye Dam. 1, H318, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>0.01-0.05</td>
<td>2634-33-5</td>
<td>2201209</td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302, Skin Irrit. 2, H315, Eye Dam. 1, H318, Skin Sens. 1, H317, Aquatic Acute 1, H400, Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.

Skin Contact: Wash with water and mild soap for 15 minutes. If symptoms occur, get medical attention.

Eye Contact: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing.

Ingestion: Get Medical advice/attention if you feel unwell.

Wash out mouth with water. Drink one or two glasses of water. Seek medical advice immediately and show this container or label. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
5. Fire-fighting measures

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide, alcohol-resistant foam.
Extinguishing Media to Avoid: No information.
Fire Fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Apply cooling water to sides of containers that are exposed to flames. Combat fire out of sheltered position.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See Section 8).
Environmental precautions: Ventilate closed spaces before entering.
Methods and materials for containment and cleaning up: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

7. Handling and storage

Handling
- Technical Measures: Wash hands thoroughly after handling.
- Ventilation requirements: Use with adequate ventilation.
- Precautions: No information.
- Precautions for safe handling: Do not breathe dust/fume/gas/mist/vapours/spray.

Storage
- Storage Conditions: Keep container tightly closed. Store in a cool and dry place. Keep away from incompatible substances (See Section 10).
- Safety adequate container materials: No information.

8. Exposure controls/personal protection

Appropriate engineering controls: Use process enclosures or local exhaust ventilation.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Black

Control parameters

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>ACGIH</th>
<th>EU - OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TLV-TWA</td>
<td>TLV-STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50pppm, 10mg/m3</td>
</tr>
<tr>
<td>(2-methoxymethylethoxy)propanol</td>
<td>100ppm</td>
<td>150ppm</td>
</tr>
<tr>
<td>2-pyrrolidinone</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one</td>
<td>None established</td>
<td>None established</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Splash goggles should be worn.
- Skin Protection: Not required under normal conditions.

9. Physical and chemical properties

- Physical state: Liquid
- Form: Liquid
- Color: Black
- Odor: Slight
- Odor threshold: No data.
- pH: Approx.8
- Melting point/freezing point: No data.
- Initial boiling point and boiling range: 398(℃) Closed Cup
- Flash point: >93.3(℃)
- Auto-ignition temperature: 398(℃)
- Upper/lower flammability or explosive limits: No data.
- Vapour pressure: No data.
- Vapour density: No data.
- Evaporation rate: No data.
- Specific Gravity: 1.1
10. Stability and reactivity

Chemical stability: The product is chemically stable under recommended conditions of storage, use and temperature.
Possibility of hazardous reactions: None reasonably foreseeable. Stable at normal temperatures and storage conditions.
Conditions to avoid: Avoid extreme heat. Do not freeze.
Incompatible materials: Acids, bases and strong oxidizing agents
Hazardous decomposition products: Under fire conditions: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

11. Toxicological information

Product Mutagenicity: Ames Test: Positive

12. Ecological information

No Data

13. Disposal considerations

Disposal methods: When disposing of the waste, containers or recovered material, consult the European, national and/or local regulations for the proper disposal method.

14. Transport information

UN Class UN classification: None (Not a dangerous good under IATA or IMDG.)
UN number: Not applicable
Proper shipping name: Not applicable
Packing group: Not applicable
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-A Black

15. Regulatory information

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

Other regulations: Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

16. Other information

Full text of H phrases:

Acute Tox.: Acute toxicity
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitization
Eye Dam.: Serious eye damage
Eye Irrit.: Eye irritation
STOT RE: Specific target organ toxicity -repeated exposure
Aquatic Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic

H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

Disclaimer

The above information is believed to be accurate and represents the best information currently available to our company. However, our company make no warranty with respect to such information, and our company assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.