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

Product Name: Disperse Dye Ink TYPE-S Yellow
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 771984)

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>Flammable liquids</td>
<td>No Classification</td>
</tr>
<tr>
<td>Acute toxicity (oral)</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No Classification</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: H373: May cause damage to organs (kidney) through prolonged or repeated exposure

Precautionary Statements:
Prevention See Section 4,7
Response See Section 4,7
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Yellow

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>25-35</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>
</tbody>
</table>

4. First-aid measures

- **Inhalation:** Get Medical advice/attention if you feel unwell.
- **Skin Contact:** Wash with water and mild soap. Get Medical advice/attention if you feel unwell.
- **Eye Contact:** Get Medical advice/attention if you feel unwell. Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
- **Ingestion:** Get Medical advice/attention if you feel unwell. Wash out mouth with water. Drink one or two glasses of water. Get medical attention. 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. No information.
- **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-STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Safety glasses should be worn.
- Skin Protection: Not required under normal conditions.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Yellow

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>Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data.</td>
</tr>
<tr>
<td>pH</td>
<td>Approx. 6.5 – 8.5</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>None</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data.</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>No data.</td>
</tr>
<tr>
<td>Solubility</td>
<td>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: Stable.
Possibility of hazardous reactions: No Information.
Conditions to avoid: No Information.
Incompatible materials: Oxidizers
Hazardous decomposition products: Carbon monoxide, Carbon dioxide

11. Toxicological information

No Data
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Yellow

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.)

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1: Safety, health and environmental regulations/legislation specific for the substance or mixture
Not applicable
Not applicable
Not applicable
Not applicable
Annex XIV- List of Substances Subject To Authorisation: Not applicable
Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

15.2: Chemical Safety Assessment
For this product a chemical safety assessment was not carried out.
16. Other information

Full text of H phrases:

Acute Tox.: Acute toxicity
STOT RE: Specific target organ toxicity - repeated exposure
H302: Harmful if swallowed.
H373: May cause damage to organs (kidney) through prolonged or repeated exposure

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

Product Name: Disperse Dye Ink TYPE-S Magenta
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>Flammable liquids</td>
<td>No Classification</td>
</tr>
<tr>
<td>Acute toxicity (oral)</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin sensitizer</td>
<td>No Classification</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>following repeated exposure</td>
<td></td>
</tr>
</tbody>
</table>

LABEL ELEMENTS

Precautionary pictograms:

Signal word: Warning
Hazard Statement: H373: May cause damage to organs (kidney) 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>

<table>
<thead>
<tr>
<th>Ingredients and Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ingredient Name</strong></td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>Ethylene glycol</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. Get Medical advice/attention if you feel unwell.

**Eye Contact:** Get Medical advice/attention if you feel unwell. Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

**Ingestion:** Get Medical advice/attention if you feel unwell. Wash out mouth with water. Drink one or two glasses of water. Get medical attention. 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. No information.

**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- STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm,10mg/m3</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

Respiratory Protection: Not required under normal conditions.

Hand protection: Impervious gloves should be worn.

Eye/face protection: Safety glasses 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
Odor threshold: No data.
pH: Approx. 6.5 – 8.5
Melting point/freezing point: No data.
Initial boiling point and boiling range: No data.
Flash point: None
Auto-ignition temperature: No data.
Upper/lower flammability or explosive limits: No data.
Vapour pressure: No data.
Vapour density: No data.
Evaporation rate: No data.
Specific Gravity: No data.
Solubility: 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: Stable.
Possibility of hazardous reactions: No Information.
Conditions to avoid: No Information.
Incompatible materials: Oxidizers
Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Sulfur oxides, Nitrogen oxides

11. Toxicological information

Product

Skin sensitization: None  LLNA [mouse] (data of similar product)
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Magenta

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.)

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Not applicable

Not applicable

Not applicable

Not applicable

Annex XIV- List of Substances Subject To Authorisation: Not applicable
Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

15.2: Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.
16. Other information

Full text of H phrases:

<table>
<thead>
<tr>
<th>Acute Tox.</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT RE:</td>
<td>Specific target organ toxicity - repeated exposure</td>
</tr>
<tr>
<td>H302:</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H373:</td>
<td>May cause damage to organs (kidney) through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

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

Product Name: Disperse Dye Ink TYPE-S 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

<table>
<thead>
<tr>
<th>Hazard category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>No Classification</td>
</tr>
<tr>
<td>Acute toxicity (oral)</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin sensitizer</td>
<td>No Classification</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: H373: May cause damage to organs (kidney) 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>35-45</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>
</tbody>
</table>

4. First-aid measures

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

**Skin Contact:**
Wash with water and mild soap.
Get Medical advice/attention if you feel unwell.

**Eye Contact:**
Get Medical advice/attention if you feel unwell.
Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

**Ingestion:**
Get Medical advice/attention if you feel unwell.
Wash out mouth with water. Drink one or two glasses of water. Get medical attention. 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.
No information.

**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.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Cyan

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- STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
</tbody>
</table>

Personal Protective Equipment
- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Safety glasses should be worn.
- Skin Protection: Not required under normal conditions.
9. Physical and chemical properties

Product

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Blue</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight odor</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>No data.</td>
</tr>
<tr>
<td>pH:</td>
<td>Approx. 6.5 – 8.5</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>None</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>No data.</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>No data.</td>
</tr>
<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: Stable.
Possibility of hazardous reactions: No Information.
Conditions to avoid: No Information.
Incompatible materials: Oxidizers
Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Nitrogen oxides

11. Toxicological information

Product

Skin sensitization: None LLNA [mouse] (data of similar product)
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.)

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

   Not applicable

   Not applicable

   Not applicable

   Not applicable

   Annex XIV- List of Substances Subject To Authorisation: Not applicable
   Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

15.2: Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.
16. Other information

Full text of H phrases :

Acute Tox. : Acute toxicity
STOT RE : Specific target organ toxicity -repeated exposure
H302 : Harmful if swallowed.
H373 : May cause damage to organs (kidney) through prolonged or repeated exposure

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

MSDS: 2014044042EU
Date Prepared: 2014/12/01
Date Revised: 2017/11/15

Product Name: Disperse Dye Ink TYPE-S Black

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

Product Name: Disperse Dye Ink TYPE-S Black
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

hazard category | Category
--- | ---
Flammable liquids | No Classification
Acute toxicity (oral) | No Classification
Skin corrosion/irritation | No Classification
Serious eye damage/eye irritation | No Classification
Skin sensitizer | No Classification
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 (kidney) 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>35-45</td>
<td>107-21-1</td>
<td></td>
<td>No registration number available.</td>
<td>Acute Tox. 4, H302 STOT RE 2, H373</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. Get Medical advice/attention if you feel unwell.
- **Eye Contact**: Get Medical advice/attention if you feel unwell. Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
- **Ingestion**: Get Medical advice/attention if you feel unwell. Wash out mouth with water. Drink one or two glasses of water. Get medical attention. 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- STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
<tr>
<td>2-[[2-Cyanoethyl]4-[[6-Nitrobenzothiazol-2-Yl]Azo]Phenyl]Amino]Ethyl Acetate</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: Safety glasses should be worn.

Skin Protection: Not required under normal conditions.
9. Physical and chemical properties

Product

- Physical state: Liquid
- Form: Liquid
- Color: Black
- Odor: Slight odor
- Odor threshold: No data.
- pH: Approx. 6.5 – 8.5
- Melting point/freezing point: No data.
- Initial boiling point and boiling range: No data.
- Flash point: None
- Auto-ignition temperature: No data.
- Upper/lower flammability or explosive limits: No data.
- Vapour pressure: No data.
- Vapour density: No data.
- Evaporation rate: No data.
- Specific Gravity: No data.
- Solubility: 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: Stable.
Possibility of hazardous reactions: No Information.
Conditions to avoid: No Information.
Incompatible materials: Oxidizers
Hazardous decomposition products: Carbon monoxide, Carbon dioxide

11. Toxicological information

Product

- Skin sensitization: None LLNA [mouse] (data of similar product)
- Mutagenicity: Ames Test: Positive (Analogy of Ingredients 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: None (Not a dangerous good under IATA or IMDG.)

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Not applicable

Not applicable

Not applicable

Not applicable

Annex XIV- List of Substances Subject To Authorisation: Not applicable
Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

15.2: Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.
SAFETY DATA SHEET

Date Prepared: 2014/12/01
Date Revised: 2017/11/15

Product Name: Disperse Dye Ink TYPE-S Black

16. Other information

Full text of H phrases :

Acute Tox. : Acute toxicity
Skin Sens. : Skin sensitization
STOT RE : Specific target organ toxicity -repeated exposure
H302 : Harmful if swallowed.
H317 : May cause allergic skin reaction
H373 : May cause damage to organs (kidney) through prolonged or repeated exposure

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

Product Name: Disperse Dye Ink TYPE-S 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)

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                                                  Category
Flammable liquids                                               No Classification
Acute toxicity (oral)                                           No Classification
Skin corrosion/irritation                                      No Classification
Serious eye damage/eye irritation                               No Classification
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 (kidney) through prolonged or repeated exposure

Precautionary Statements:
Prevention See Section 4,7
Response See Section 4,7
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Pink

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>20-30</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>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.
Skin Contact: Wash with water and mild soap. Get Medical advice/attention if you feel unwell.
Eye Contact: Get Medical advice/attention if you feel unwell. Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
Ingestion: Get Medical advice/attention if you feel unwell. Wash out mouth with water. Drink one or two glasses of water. Get medical attention. 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-STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Safety glasses 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
- **Odor threshold:** No data.
- **pH:** Approx. 6.5 – 8.5
- **Auto-ignition temperature:** No data.
- **Initial boiling point and boiling range:** No data.
- **Flash point:** None
- **Upper/lower flammability or explosive limits:** No data.
- **Vapour pressure:** No data.
- **Vapour density:** No data.
- **Evaporation rate:** No data.
- **Specific Gravity:** No data.
- **Solubility:** Miscible.
- **Partition coefficient:** No data.
- **Decomposition temperature:** No data.
- **Viscosity:** No data.
- **Kinematic Viscosity:** No data.

10. Stability and reactivity

- **Chemical stability:** Stable.
- **Possibility of hazardous reactions:** No Information.
- **Conditions to avoid:** No Information.
- **Incompatible materials:** Oxidizers
- **Hazardous decomposition products:** Carbon monoxide, Carbon dioxide

11. Toxicological information

No Data
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Pink

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.)

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Not applicable

Not applicable

Not applicable

Not applicable

Annex XIV- List of Substances Subject To Authorisation: Not applicable
Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

15.2: Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.
16. Other information

Full text of H phrases :

Acute Tox. : Acute toxicity
STOT RE : Specific target organ toxicity -repeated exposure
H302 : Harmful if swallowed.
H373 : May cause damage to organs (kidney) through prolonged or repeated exposure

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

Product Name: Disperse Dye Ink TYPE-S 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 771984)
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>Flammable liquids</td>
<td>No Classification</td>
</tr>
<tr>
<td>Acute toxicity (oral)</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No Classification</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: H373: May cause damage to organs (kidney) through prolonged or repeated exposure
Precautionary Statements:
Prevention See Section 4,7
Response See Section 4,7
SAFETY DATA SHEET

MSDS: 2014044062EU
Date Prepared: 2014/12/01
Date Revised: 2017/11/15

Product Name: Disperse Dye Ink TYPE-S Sky

3. Composition/information on ingredients

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

<table>
<thead>
<tr>
<th>Ingredients and Concentration</th>
</tr>
</thead>
</table>

<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>20-30</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>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.
Skin Contact: Wash with water and mild soap. Get Medical advice/attention if you feel unwell.
Eye Contact: Get Medical advice/attention if you feel unwell. Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
Ingestion: Get Medical advice/attention if you feel unwell. Wash out mouth with water. Drink one or two glasses of water. Get medical attention. 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.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Sky

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-STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
</tbody>
</table>

Personal Protective Equipment
- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Safety glasses should be worn.
- Skin Protection: Not required under normal conditions.
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>Blue</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data.</td>
</tr>
<tr>
<td>pH</td>
<td>Approx. 6.5 – 8.5</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data.</td>
</tr>
<tr>
<td>Initial boiling point and</td>
<td>No data.</td>
</tr>
<tr>
<td>boiling range</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>None</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data.</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>No data.</td>
</tr>
<tr>
<td>explosive limits</td>
<td></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>No data.</td>
</tr>
<tr>
<td>Solubility</td>
<td>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: Stable.
Possibility of hazardous reactions: No Information.
Conditions to avoid: No Information.
Incompatible materials: Oxidizers
Hazardous decomposition products: Carbon monoxide, Carbon dioxide

11. Toxicological information

No Data
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Sky

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

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Not applicable

Not applicable

Not applicable

Not applicable

Annex XIV- List of Substances Subject To Authorisation: Not applicable
Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

15.2: Chemical Safety Assessment
For this product a chemical safety assessment was not carried out.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Sky

16. Other information

Full text of H phrases:
- Acute Tox.: Acute toxicity
- STOT RE: Specific target organ toxicity -repeated exposure
- H302: Harmful if swallowed.
- H373: May cause damage to organs (kidney) through prolonged or repeated exposure

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
MSDS: 2014044072EU
Date Prepared: 2014/12/01
Date Revised: 2017/11/15

Product Name: Disperse Dye Ink TYPE-S Gray

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

Product Name: Disperse Dye Ink TYPE-S 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@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

<table>
<thead>
<tr>
<th>hazard category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>No Classification</td>
</tr>
<tr>
<td>Acute toxicity (oral)</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No Classification</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: H373: May cause damage to organs (kidney) 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>25-35</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>
</tbody>
</table>

4. First-aid measures

Inhalation: Get Medical advice/attention if you feel unwell.
Skin Contact: Wash with water and mild soap. Get Medical advice/attention if you feel unwell.
Eye Contact: Get Medical advice/attention if you feel unwell. Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
Ingestion: Get Medical advice/attention if you feel unwell. Wash out mouth with water. Drink one or two glasses of water. Get medical attention. 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>TLV-TWA</th>
<th>TLV- STEL</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
<td>20ppm, 5mg/m3</td>
<td>40ppm, 10mg/m3</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Respiratory Protection: Not required under normal conditions.
- Hand protection: Impervious gloves should be worn.
- Eye/face protection: Safety glasses should be worn.
- Skin Protection: Not required under normal conditions.
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 odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data.</td>
</tr>
<tr>
<td>pH</td>
<td>Approx. 6.5 – 8.5</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>None</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data.</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>No data.</td>
</tr>
<tr>
<td>Solubility</td>
<td>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: Stable.
- Possibility of hazardous reactions: No Information.
- Conditions to avoid: No Information.
- Incompatible materials: Oxidizers
- Hazardous decomposition products: Carbon monoxide, Carbon dioxide

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.)

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Not applicable

Not applicable

Not applicable

Not applicable


Annex XIV- List of Substances Subject To Authorisation: Not applicable
Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

15.2: Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.
16. Other information

Full text of H phrases:

- Acute Tox.: Acute toxicity
- STOT RE: Specific target organ toxicity - repeated exposure
- H302: Harmful if swallowed.
- H373: May cause damage to organs (kidney) through prolonged or repeated exposure

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-S Violet

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

Product Name: Disperse Dye Ink TYPE-S 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>
<tr>
<th>hazard category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>No Classification</td>
</tr>
<tr>
<td>Acute toxicity (oral)</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Specific target organ systemic toxicity following repeated exposure</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

LABEL ELEMENTS
Precautionary pictograms:

![Pictogram]

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

Precautionary Statements:
Prevention See Section 4,7
Response See Section 4,7
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Violet

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>25-35</td>
<td>107-21-1</td>
<td>2034733</td>
<td>No registration available.</td>
<td>Acute Tox. 4, H302 STOT RE 2, H373</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. Get Medical advice/attention if you feel unwell.
Eye Contact: Get Medical advice/attention if you feel unwell. Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
Ingestion: Get Medical advice/attention if you feel unwell. Wash out mouth with water. Drink one or two glasses of water. Get medical attention. 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.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Violet

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- STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25 ppm</td>
<td>50 ppm, 10 mg/m3</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

Respiratory Protection: Not required under normal conditions.
Hand protection: Impervious gloves should be worn.
Eye/face protection: Safety glasses should be worn.
Skin Protection: Not required under normal conditions.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Violet

9. Physical and chemical properties

<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>Violet</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight odor</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>No data.</td>
</tr>
<tr>
<td>pH:</td>
<td>Approx. 6.5 – 8.5</td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td>No data.</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>No data.</td>
</tr>
<tr>
<td>boiling range:</td>
<td></td>
</tr>
<tr>
<td>Flash point:</td>
<td>None</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>No data.</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>No data.</td>
</tr>
<tr>
<td>explosive limits:</td>
<td></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>No data.</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Miscible.</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No data.</td>
</tr>
<tr>
<td>n-octanol/water:</td>
<td></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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability:</td>
<td>Stable.</td>
</tr>
<tr>
<td>Possibility of hazardous</td>
<td>No Information.</td>
</tr>
<tr>
<td>reactions:</td>
<td></td>
</tr>
<tr>
<td>Conditions to avoid:</td>
<td>No Information.</td>
</tr>
<tr>
<td>Incompatible materials:</td>
<td>Oxidizers</td>
</tr>
<tr>
<td>Hazardous decomposition</td>
<td>Carbon monoxide, Carbon dioxide</td>
</tr>
<tr>
<td>products:</td>
<td></td>
</tr>
</tbody>
</table>

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.)

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

  - Not applicable
  - Not applicable
  - Not applicable
  - Not applicable
  - Annex XIV- List of Substances Subject To Authorisation: Not applicable
  - Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

15.2: Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.
16. Other information

Full text of H phrases:

Acute Tox. : Acute toxicity
STOT RE : Specific target organ toxicity - repeated exposure
H302 : Harmful if swallowed.
H373 : May cause damage to organs (kidney) through prolonged or repeated exposure

Disclaimer

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

Product Name: Disperse Dye Ink TYPE-S Red
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>Flammable liquids</td>
<td>No Classification</td>
</tr>
<tr>
<td>Acute toxicity (oral)</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No Classification</td>
</tr>
<tr>
<td>Skin sensitizer</td>
<td>No Classification</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: H373: May cause damage to organs (kidney) 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>35-45</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>
</tbody>
</table>

4. First-aid measures

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

**Skin Contact:**
Wash with water and mild soap.
Get Medical advice/attention if you feel unwell.

**Eye Contact:**
Get Medical advice/attention if you feel unwell.
Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.

**Ingestion:**
Get Medical advice/attention if you feel unwell.
Wash out mouth with water. Drink one or two glasses of water. Get medical attention. 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- STEL</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>25ppm</td>
<td>50ppm, 10mg/m3</td>
</tr>
<tr>
<td>2-[(2-Cyanoethyl)]4-[(6-Nitrobenzothiazol-2-Yl)Azo]Pheny]Amino]Ethyl Acetate</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: Safety glasses should be worn.

Skin Protection: Not required under normal conditions.
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>Red</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight odor</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>No data.</td>
</tr>
<tr>
<td>pH:</td>
<td>Approx. 6.5 – 8.5</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>None</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>No data.</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>No data.</td>
</tr>
<tr>
<td>Solubility:</td>
<td>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: Stable.
Possibility of hazardous reactions: No Information.
Conditions to avoid: No Information.
Incompatible materials: Oxidizers
Hazardous decomposition products: Carbon monoxide, Carbon dioxide

11. Toxicological information

Product

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin sensitization</td>
<td>None LLNA [mouse] (data of similar product)</td>
</tr>
<tr>
<td>Mutagenicity:</td>
<td>Ames Test: Positive (Analogy of Ingredients data)</td>
</tr>
</tbody>
</table>
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.)

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

  - Annex XIV- List of Substances Subject To Authorisation: Not applicable
  - Annex XVII- Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: Not applicable

15.2: Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.
SAFETY DATA SHEET

Product Name: Disperse Dye Ink TYPE-S Red

16. Other information

Full text of H phrases:

- Acute Tox. : Acute toxicity
- Skin Sens. : Skin sensitization
- STOT RE : Specific target organ toxicity -repeated exposure
- H302 : Harmful if swallowed.
- H317 : May cause allergic skin reaction
- H373 : May cause damage to organs (kidney) through prolonged or repeated exposure

Disclaimer

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