



**SAFETY DATA SHEET**  
**Cyan ink for HP Refillheads col 23, 343 & 344**

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**

PRODUCT NAME Cyan ink for HP Refillheads col 23, 343 & 344

SUPPLIER Lyreco  
Admin / Technical Centre  
59318 Valenciennes Cedex 9  
FRANCE  
+33 (0) 3 27 23 64 00  
msds@lyreco.com

EMERGENCY TELEPHONE +33 (0) 3 27 23 64 00 (available only during office hours)

**2 HAZARDS IDENTIFICATION**

Not regarded as a health or environmental hazard under current legislation.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

| Name                      | EC No.    | CAS-No.  | Content | Classification |
|---------------------------|-----------|----------|---------|----------------|
| 2-(2-BUTOXYETHOXY)ETHANOL | 203-961-6 | 112-34-5 | 1-5%    | Xi;R36         |

The Full Text for all R-Phrases are Displayed in Section 16

**4 FIRST-AID MEASURES****GENERAL INFORMATION**

When in doubt or symptoms persist, seek medical attention.

**INHALATION**

General first aid, rest, warmth and fresh air.

**INGESTION**

Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately!

**SKIN CONTACT**

Wash skin thoroughly with soap and water.

**EYE CONTACT**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES**

Avoid breathing fire vapours.

**SPECIFIC HAZARDS**

The product is non-combustible. If heated, irritating vapours may be formed.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Use protective gloves, goggles and suitable protective clothing.

**ENVIRONMENTAL PRECAUTIONS**

Do not allow to enter drains, sewers or watercourses.

**SPILL CLEAN UP METHODS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Collect with non-combustible absorbent material. Flush with water. Dike for large spills. For waste disposal, see section 13.

**Cyan ink for HP Refillheads col 23, 343 & 344****7 HANDLING AND STORAGE**

## USAGE PRECAUTIONS

Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

## STORAGE PRECAUTIONS

Keep in a cool, dry well ventilated place.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

## INGREDIENT COMMENTS

No exposure limits noted for ingredient(s).

## ENGINEERING MEASURES

Provide adequate ventilation.

## HAND PROTECTION

Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

## EYE PROTECTION

If risk of splashing, wear safety goggles or face shield.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

|                          |                      |  |                    |
|--------------------------|----------------------|--|--------------------|
| APPEARANCE               | Liquid               |  |                    |
| COLOUR                   | Blue                 |  |                    |
| ODOUR                    | Noticeable.          |  |                    |
| SOLUBILITY               | Miscible with water. |  |                    |
| BOILING POINT (°C)       | > 100                | MELTING POINT (°C)                         | < 0                |
| RELATIVE DENSITY         | 1.05 @ 25 °C         | VAPOUR PRESSURE                            | ca 20 mbar @ 25 °C |
| pH-VALUE, CONC. SOLUTION | 8.7                  | VISCOSITY                                  | 3.0 cps @ 25 °C    |
| FLASH POINT (°C)         | > 90                 | PARTITION COEFFICIENT<br>(N-Octanol/Water) | ND                 |

**10 STABILITY AND REACTIVITY**

## STABILITY

Stable under normal temperature conditions and recommended use.

## CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

## HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**11 TOXICOLOGICAL INFORMATION**

## INHALATION

May cause irritation to the respiratory system.

## INGESTION

May cause discomfort if swallowed.

## SKIN CONTACT

Skin irritation is not anticipated when used normally.

## EYE CONTACT

May cause temporary eye irritation.

**12 ECOLOGICAL INFORMATION**

## ECOTOXICITY

Volatile organic compounds (VOC): 10-20%.

## BIOACCUMULATION

No data available on bioaccumulation.

## DEGRADABILITY

The product is expected to be biodegradable.

**Cyan ink for HP Refillheads col 23, 343 & 344**

## WATER HAZARD CLASSIFICATION

WGK 2 (Medium hazard)(Self-classification)

**13 DISPOSAL CONSIDERATIONS**

## GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal should be in accordance with local, state or national legislation.

## WASTE CLASS

List of Wastes (ref: Decision 2000/532/EC): 08 03 13.

**14 TRANSPORT INFORMATION**

## GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**15 REGULATORY INFORMATION**

## RISK PHRASES

NC Not classified.

## SAFETY PHRASES

P13 Safety data sheet available for professional user on request.

## UK REGULATORY REFERENCES

Health and Safety at Work Act 1974.

## ENVIRONMENTAL LISTING

Environmental Protection Act 1990. Pollution Prevention and Control Act 1999.

## EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

## APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations.

## GUIDANCE NOTES

Classification and Labelling of Substances and Preparations Dangerous for Supply.

## NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits EH40. Hazardous Waste Regulations 2005. List of Wastes Regulations 2005. The Solvent Emissions Regulations 2004.

**16 OTHER INFORMATION**

## GENERAL INFORMATION

NA = not applicable. NC = not classified. ND = no data. TWA = time-weighted average. Not classified as hazardous for users. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents. The precise composition of this product is proprietary information. More details will be supplied in confidence to qualified medical personnel if specific treatment is necessary. All brand names and trademarks are the property of their respective holders and are used here for descriptive purposes only.

## REVISION COMMENTS

This is first issue.

## REVISION DATE

A / 31.05.06

## RISK PHRASES IN FULL

R36 Irritating to eyes.

## DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



**SAFETY DATA SHEET**  
**Magenta ink for HP Refillheads col 343 & 344**

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**

PRODUCT NAME                      Magenta ink for HP Refillheads col 343 & 344

SUPPLIER                              Lyreco  
Admin / Technical Centre  
59318 Valenciennes Cedex 9  
FRANCE  
+33 (0) 3 27 23 64 00  
msds@lyreco.com

EMERGENCY TELEPHONE            +33 (0) 3 27 23 64 00 (available only during office hours)

**2 HAZARDS IDENTIFICATION**

Not regarded as a health or environmental hazard under current legislation.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

| Name              | EC No.    | CAS-No.  | Content | Classification   |
|-------------------|-----------|----------|---------|------------------|
| DIETHYLENE GLYCOL | 203-872-2 | 111-46-6 | 5-10%   | Xn;R22           |
| ETHYLENE GLYCOL   | 203-473-3 | 107-21-1 | 10-30%  | Xn;R22           |
| PROPAN-2-OL       | 200-661-7 | 67-63-0  | 1-5%    | F;R11 Xi;R36 R67 |

The Full Text for all R-Phrases are Displayed in Section 16

**4 FIRST-AID MEASURES****GENERAL INFORMATION**

When in doubt or symptoms persist, seek medical attention.

**INHALATION**

General first aid, rest, warmth and fresh air.

**INGESTION**

Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately!

**SKIN CONTACT**

Wash skin thoroughly with soap and water.

**EYE CONTACT**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES**

Avoid breathing fire vapours.

**SPECIFIC HAZARDS**

The product is non-combustible. If heated, irritating vapours may be formed.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Use protective gloves, goggles and suitable protective clothing.

**ENVIRONMENTAL PRECAUTIONS**

Do not allow to enter drains, sewers or watercourses.

## Magenta ink for HP Refillheads col 343 & 344

### SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Collect with non-combustible absorbent material. Flush with water. Dike for large spills. For waste disposal, see section 13.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

### STORAGE PRECAUTIONS

Keep in a cool, dry well ventilated place.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name              | Std | LT - ppm | LT - mg/m3   | ST - ppm | ST - mg/m3    |
|-------------------|-----|----------|--------------|----------|---------------|
| DIETHYLENE GLYCOL | WEL | 23 ppm   | 101 mg/m3    |          |               |
| ETHYLENE GLYCOL   | WEL |          | 52 mg/m3(Sk) |          | 104 mg/m3(Sk) |
| PROPAN-2-OL       | WEL | 400 ppm  | 999 mg/m3    | 500 ppm  | 1250 mg/m3    |

### INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

### ENGINEERING MEASURES

Provide adequate ventilation.

### HAND PROTECTION

Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

### EYE PROTECTION

If risk of splashing, wear safety goggles or face shield.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

|                          |                      |  |                    |
|--------------------------|----------------------|--|--------------------|
| APPEARANCE               | Liquid               |  |                    |
| COLOUR                   | Red                  |  |                    |
| ODOUR                    | Noticeable.          |  |                    |
| SOLUBILITY               | Miscible with water. |  |                    |
| BOILING POINT (°C)       | > 100                | MELTING POINT (°C)                         | < 0                |
| RELATIVE DENSITY         | 1.06 @ 25 °C         | VAPOUR PRESSURE                            | ca 20 mbar @ 25 °C |
| pH-VALUE, CONC. SOLUTION | 9.7                  | VISCOSITY                                  | 2.0 cSt @ 25 °C    |
| FLASH POINT (°C)         | NA                   | PARTITION COEFFICIENT<br>(N-Octanol/Water) | ND                 |

## 10 STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

### HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## 11 TOXICOLOGICAL INFORMATION

### INHALATION

May cause irritation to the respiratory system.

### INGESTION

Gastrointestinal symptoms, including upset stomach.

### SKIN CONTACT

May be absorbed through the skin.

### EYE CONTACT

May cause temporary eye irritation.

**Magenta ink for HP Refillheads col 343 & 344****12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Volatile organic compounds (VOC): 10-20%.

**BIOACCUMULATION**

No data available on bioaccumulation.

**DEGRADABILITY**

The product is expected to be biodegradable.

**WATER HAZARD CLASSIFICATION**

WGK 1 (Slight hazard)(Self-classification)

**13 DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

Waste to be treated as controlled waste. Disposal should be in accordance with local, state or national legislation.

**WASTE CLASS**

List of Wastes (ref: Decision 2000/532/EC): 08 03 13.

**14 TRANSPORT INFORMATION****GENERAL**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**15 REGULATORY INFORMATION****RISK PHRASES**

NC Not classified.

**SAFETY PHRASES**

P13 Safety data sheet available for professional user on request.

**UK REGULATORY REFERENCES**

Health and Safety at Work Act 1974.

**ENVIRONMENTAL LISTING**

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**EU DIRECTIVES**

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**16 OTHER INFORMATION****GENERAL INFORMATION**

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**REVISION COMMENTS**

This is first issue.

**REVISION DATE**

A / 13.03.07

## **Magenta ink for HP Refillheads col 343 & 344**

### **RISK PHRASES IN FULL**

|     |   |
|-----|---|
| R11 | Highly flammable.                           |
| R22 | Harmful if swallowed.                       |
| R36 | Irritating to eyes.                         |
| R67 | Vapours may cause drowsiness and dizziness. |

### **DISCLAIMER**

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**SAFETY DATA SHEET**  
**Yellow ink for HP Refillheads col 343 & 344**

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**

PRODUCT NAME Yellow ink for HP Refillheads col 343 & 344

SUPPLIER Lyreco  
Admin / Technical Centre  
59318 Valenciennes Cedex 9  
FRANCE  
+33 (0) 3 27 23 64 00  
msds@lyreco.com

EMERGENCY TELEPHONE +33 (0) 3 27 23 64 00 (available only during office hours)

**2 HAZARDS IDENTIFICATION**

Not regarded as a health or environmental hazard under current legislation.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

| Name              | EC No.    | CAS-No.  | Content | Classification   |
|-------------------|-----------|----------|---------|------------------|
| DIETHYLENE GLYCOL | 203-872-2 | 111-46-6 | 5-10%   | Xn;R22           |
| ETHYLENE GLYCOL   | 203-473-3 | 107-21-1 | 10-30%  | Xn;R22           |
| PROPAN-2-OL       | 200-661-7 | 67-63-0  | 1-5%    | F;R11 Xi;R36 R67 |

The Full Text for all R-Phrases are Displayed in Section 16

**4 FIRST-AID MEASURES****GENERAL INFORMATION**

When in doubt or symptoms persist, seek medical attention.

**INHALATION**

General first aid, rest, warmth and fresh air.

**INGESTION**

Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately!

**SKIN CONTACT**

Wash skin thoroughly with soap and water.

**EYE CONTACT**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES**

Avoid breathing fire vapours.

**SPECIFIC HAZARDS**

The product is non-combustible. If heated, irritating vapours may be formed.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Use protective gloves, goggles and suitable protective clothing.

**ENVIRONMENTAL PRECAUTIONS**

Do not allow to enter drains, sewers or watercourses.



**Yellow ink for HP Refillheads col 343 & 344****SPILL CLEAN UP METHODS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Collect with non-combustible absorbent material. Flush with water. Dike for large spills. For waste disposal, see section 13.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Do not eat, drink or smoke when using the product. Observe good industrial hygiene practices.

**STORAGE PRECAUTIONS**

Keep in a cool, dry well ventilated place.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

| Name              | Std | LT - ppm | LT - mg/m3   | ST - ppm | ST - mg/m3    |
|-------------------|-----|----------|--------------|----------|---------------|
| DIETHYLENE GLYCOL | WEL | 23 ppm   | 101 mg/m3    |          |               |
| ETHYLENE GLYCOL   | WEL |          | 52 mg/m3(Sk) |          | 104 mg/m3(Sk) |
| PROPAN-2-OL       | WEL | 400 ppm  | 999 mg/m3    | 500 ppm  | 1250 mg/m3    |

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**ENGINEERING MEASURES**

Provide adequate ventilation.

**HAND PROTECTION**

Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

If risk of splashing, wear safety goggles or face shield.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

|                          |                      |  |                    |
|--------------------------|----------------------|--|--------------------|
| APPEARANCE               | Liquid               |  |                    |
| COLOUR                   | Yellow               |  |                    |
| ODOUR                    | Noticeable.          |  |                    |
| SOLUBILITY               | Miscible with water. |  |                    |
| BOILING POINT (°C)       | > 100                | MELTING POINT (°C)                         | < 0                |
| RELATIVE DENSITY         | 1.05 @ 25 °C         | VAPOUR PRESSURE                            | ca 20 mbar @ 25 °C |
| pH-VALUE, CONC. SOLUTION | 8.7                  | VISCOSITY                                  | 2.1 cSt @ 25 °C    |
| FLASH POINT (°C)         | NA                   | PARTITION COEFFICIENT<br>(N-Octanol/Water) | ND                 |

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions and recommended use.

**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**11 TOXICOLOGICAL INFORMATION****INHALATION**

May cause irritation to the respiratory system.

**INGESTION**

Gastrointestinal symptoms, including upset stomach.

**SKIN CONTACT**

May be absorbed through the skin.

**EYE CONTACT**

May cause temporary eye irritation.

## Yellow ink for HP Refillheads col 343 &amp; 344

**12 ECOLOGICAL INFORMATION**

## ECOTOXICITY

Volatile organic compounds (VOC): 10-20%.

## BIOACCUMULATION

No data available on bioaccumulation.

## DEGRADABILITY

The product is expected to be biodegradable.

## WATER HAZARD CLASSIFICATION

WGK 1 (Slight hazard)(Self-classification)

**13 DISPOSAL CONSIDERATIONS**

## GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal should be in accordance with local, state or national legislation.

## WASTE CLASS

List of Wastes (ref: Decision 2000/532/EC): 08 03 13.

**14 TRANSPORT INFORMATION**

## GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**15 REGULATORY INFORMATION**

## RISK PHRASES

NC

Not classified.

## SAFETY PHRASES

P13

Safety data sheet available for professional user on request.

## UK REGULATORY REFERENCES

Health and Safety at Work Act 1974.

## ENVIRONMENTAL LISTING

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**16 OTHER INFORMATION**

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## REVISION COMMENTS

This is first issue.

## REVISION DATE

A / 13.06.07

## **Yellow ink for HP Refillheads col 343 & 344**

### **RISK PHRASES IN FULL**

|     |   |
|-----|---|
| R11 | Highly flammable.                           |
| R22 | Harmful if swallowed.                       |
| R36 | Irritating to eyes.                         |
| R67 | Vapours may cause drowsiness and dizziness. |

### **DISCLAIMER**

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