



**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 (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**

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**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 (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

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 / 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 (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 & 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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## STATUTORY INSTRUMENTS

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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.

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