

316295 Lyreco Highlighter Blue

Lyreco Group (Lyreco France)

Chemwatch Hazard Alert Code: 0

Chemwatch: 35-3304

Version No: 2.1.1.1

Safety Data Sheet (Conforms to Regulations (EC) No 453/2010)

Issue Date: 04/12/2013

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Initial Date: Not Available

S.REACH.GBR.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product Identifier

| | |
|-------------------------------|--------------------------------|
| Product name | 316295 Lyreco Highlighter Blue |
| Synonyms | Not Available |
| Other means of identification | Not Available |
| Index number | Not Applicable |

1.2. Relevant identified uses of the substance or mixture and uses advised against

| | |
|--------------------------|---|
| Relevant identified uses | Highlighter. NOTE: Information on this SDS refers to ink used in pens and markers, however, it applies to these inks in bulk. |
| Uses advised against | Not Applicable |

1.3. Details of the manufacturer/importer

| | |
|-------------------------|---------------------------------------|
| Registered company name | Lyreco Group (Lyreco France) |
| Address | Rue du 19 Mars 1962 Marly 9770 France |
| Telephone | +33 3 27 23 64 00 (9a.m-5p.m. CET.) |
| Fax | Not Available |
| Website | Not Available |
| Email | Not Available |

1.4. Emergency telephone number

| | |
|-----------------------------------|-------------------------------------|
| Association / Organisation | Not Available |
| Emergency telephone numbers | +33 3 27 23 64 00 (9a.m-5p.m. CET.) |
| Other emergency telephone numbers | Not Available |

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Not considered a dangerous mixture according to directive 1999/45/EC, Reg. (EC) No 1272/2008 (if applicable) and their amendments. Not classified as Dangerous Goods for transport purposes.

CHEMWATCH HAZARD RATINGS

| | Min | Max |
|--------------|-----|-----|
| Flammability | 0 | |
| Toxicity | 0 | |
| Body Contact | 0 | |
| Reactivity | 0 | |
| Chronic | 0 | |

0 = Minimum
1 = Low
2 = Moderate
3 = High
4 = Extreme

| | |
|--|--|
| DSD classification | In case of mixtures, classification has been prepared by following DPD (Directive 1999/45/EC) and CLP Regulation (EC) No 1272/2008 regulations |
| DPD classification | Not Applicable |
| Classification according to regulation (EC) No 1272/2008 [CLP] | Not Applicable |

2.2. Label elements

| | |
|--------------------|----------------|
| CLP label elements | Not Applicable |
|--------------------|----------------|

| | |
|-------------|----------------|
| SIGNAL WORD | NOT APPLICABLE |
|-------------|----------------|

Hazard statement(s)

Not Applicable

Supplementary statement(s)

Not Applicable

Continued...

Precautionary statement(s) Prevention

Not Applicable

| | |
|-------------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
|-------------|---|

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**3.1. Substances**

See 'Composition on ingredients' in Section 3.2

3.2. Mixtures

| 1.CAS No 2.EC No 3.Index No 4.REACH No | %[weight] | Name | Classification according to directive 67/548/EEC [DSD] | Classification according to regulation (EC) No 1272/2008 [CLP] |
|--|-----------|--|--|--|
| | | ink containing, | | |
| 1.Not Available 2.Not Available 3.Not Available 4.Not Available | 100 | ingredients determined to be non-hazardous including | Not Applicable | Not Applicable |
| 1.7732-18-5 2.231-791-2 3.Not Available 4.Not Available | | water | Not Applicable | Not Applicable |

*ink containing,***Legend:**

1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI
4. Classification drawn from C&L

SECTION 4 FIRST AID MEASURES**4.1. Description of first aid measures**

| | |
|---------------------|---|
| General | <ul style="list-style-type: none"> ▶ If swallowed do NOT induce vomiting. ▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. ▶ Observe the patient carefully. ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. ▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. ▶ Seek medical advice. ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary. <p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"> ▶ Wash out immediately with water. ▶ If irritation continues, seek medical attention. ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation. |
| Eye Contact | <p>If this product comes in contact with eyes:</p> <ul style="list-style-type: none"> ▶ Wash out immediately with water. ▶ If irritation continues, seek medical attention. ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact | <p>If skin or hair contact occurs:</p> <ul style="list-style-type: none"> ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation. |
| Inhalation | <ul style="list-style-type: none"> ▶ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ▶ Other measures are usually unnecessary. |
| Ingestion | <ul style="list-style-type: none"> ▶ If swallowed do NOT induce vomiting. ▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. ▶ Observe the patient carefully. ▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. ▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. ▶ Seek medical advice. |

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

Continued...

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES**5.1. Extinguishing media**

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used.

5.2. Special hazards arising from the substrate or mixture**Fire Incompatibility** | None known.**5.3. Advice for firefighters****Fire Fighting** | ▶ Alert Fire Brigade and tell them location and nature of hazard.**Fire/Explosion Hazard** | ▶ The material is not readily combustible under normal conditions.**SECTION 6 ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up**Minor Spills** | ▶ Clean up all spills immediately.**Major Spills** | Minor hazard.**6.4. Reference to other sections**

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

SECTION 7 HANDLING AND STORAGE**7.1. Precautions for safe handling****Safe handling** | ▶ Limit all unnecessary personal contact.**Fire and explosion protection** | See section 5**Other information** | ▶ Store in original containers.**7.2. Conditions for safe storage, including any incompatibilities****Suitable container** | ▶ Polyethylene or polypropylene container.**Storage incompatibility** | ▶ Avoid reaction with oxidising agents**PACKAGE MATERIAL INCOMPATIBILITIES**

Not Available

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. Control parameters****DERIVED NO EFFECT LEVEL (DNEL)**

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)**INGREDIENT DATA**


| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Not Available | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|--------------------------------|---------------|---------------|---------------|---------------|
| 316295 Lyreco Highlighter Blue | Not Available | Not Available | Not Available | Not Available |

| Ingredient | Original IDLH | Revised IDLH |
|--|---------------|---------------|
| ingredients determined to be non-hazardous including | Not Available | Not Available |
| water | Not Available | Not Available |

8.2. Exposure controls

| | |
|--|---|
| 8.2.1. Appropriate engineering controls | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. |
| 8.2.2. Personal protection |  |
| Eye and face protection | <ul style="list-style-type: none"> ▶ Safety glasses with side shields ▶ Chemical goggles. |
| Skin protection | See Hand protection below |
| Hands/feet protection | Wear general protective gloves, eg. light weight rubber gloves. |
| Body protection | See Other protection below |
| Other protection | No special equipment needed when handling small quantities. |
| Thermal hazards | Not Available |

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

316295 Lyreco Highlighter Blue

| Material | CPI |
|----------------|-----|
| BUTYL | A |
| NEOPRENE | A |
| VITON | A |
| NATURAL RUBBER | C |
| PVA | C |

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Respiratory protection

Not Applicable

8.2.3. Environmental exposure controls

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | | |
|---|---|--|----------------|
| Appearance | Fluorescent blue liquid with neutral odour; mixes with water. | | |
| Physical state | Liquid | Relative density (Water = 1) | 1.1 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | 6-7 | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | 5 |
| Initial boiling point and boiling range (°C) | 100 | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | Oxidising properties | Not Available |

| | | | |
|---------------------------|---------------|----------------------------------|---------------|
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water (g/L) | Miscible | pH as a solution(1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |

9.2. Other information

| | |
|--|---------------|
| | Not Available |
|--|---------------|

SECTION 10 STABILITY AND REACTIVITY

| | |
|--|---|
| 10.1.Reactivity | See section 7.2 |
| 10.2.Chemical stability | ▶ Unstable in the presence of incompatible materials. |
| 10.3. Possibility of hazardous reactions | See section 7.2 |
| 10.4. Conditions to avoid | See section 7.2 |
| 10.5. Incompatible materials | See section 7.2 |
| 10.6. Hazardous decomposition products | See section 5.3 |

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

| | |
|--------------|--|
| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). |
| Ingestion | The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). |
| Eye | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). |
| Chronic | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. |

| | | |
|--------------------------------|---|---------------|
| 316295 Lyreco Highlighter Blue | TOXICITY | IRRITATION |
| | Not Available | Not Available |
| water | TOXICITY | IRRITATION |
| | Oral (rat) LD50: >90000 mg/kg ^[2] | Not Available |
| Legend: | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's msds unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances | |

| | |
|---------------------------------------|--|
| 316295 Lyreco Highlighter Blue, WATER | No significant acute toxicological data identified in literature search. |
|---------------------------------------|--|

| | | | |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity | ☉ | Carcinogenicity | ☉ |
| Skin Irritation/Corrosion | ☉ | Reproductivity | ☉ |
| Serious Eye Damage/Irritation | ☉ | STOT - Single Exposure | ☉ |
| Respiratory or Skin sensitisation | ☉ | STOT - Repeated Exposure | ☉ |
| Mutagenicity | ☉ | Aspiration Hazard | ☉ |

Legend:
✔ – Data required to make classification available
✘ – Data available but does not fill the criteria for classification
☉ – Data Not Available to make classification

CMR STATUS

Not Applicable

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

| | | |
|------------|-------------------------|------------------|
| Ingredient | Persistence: Water/Soil | Persistence: Air |
| water | LOW | LOW |

12.3. Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------|----------------------|
| water | LOW (LogKOW = -1.38) |

12.4. Mobility in soil

| Ingredient | Mobility |
|------------|------------------|
| water | LOW (KOC = 14.3) |

12.5. Results of PBT and vPvB assessment

| | P | B | T |
|----------------------------------|---------------|---------------|---------------|
| Relevant available data | Not Available | Not Available | Not Available |
| PBT and vPvB Criteria fulfilled? | Not Available | Not Available | Not Available |

12.6. Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

| | |
|------------------------------|--|
| Product / Packaging disposal | ▶ Recycle wherever possible or consult manufacturer for recycling options. |
| Waste treatment options | Not Available |
| Sewage disposal options | Not Available |

SECTION 14 TRANSPORT INFORMATION**Labels Required**

| | |
|------------------|----------------|
| Marine Pollutant | NO |
| HAZCHEM | Not Applicable |

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | |
|------------------------------------|--|
| 14.1. UN number | Not Applicable |
| 14.2. Packing group | Not Applicable |
| 14.3. UN proper shipping name | Not Applicable |
| 14.4. Environmental hazard | No relevant data |
| 14.5. Transport hazard class(es) | Class : Not Applicable Subrisk : Not Applicable |
| 14.6. Special precautions for user | Special provisions : Not Applicable Limited quantity : Not Applicable |

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | |
|------------------------------------|--|
| 14.1. UN number | Not Applicable |
| 14.2. Packing group | Not Applicable |
| 14.3. UN proper shipping name | Not Applicable |
| 14.4. Environmental hazard | No relevant data |
| 14.5. Transport hazard class(es) | ICAO/IATA Class : Not Applicable ICAO / IATA Subrisk : Not Applicable ERG Code : Not Applicable |
| 14.6. Special precautions for user | Special provisions : Not Applicable Cargo Only Packing Instructions : Not Applicable Cargo Only Maximum Qty / Pack : Not Applicable Passenger and Cargo Packing Instructions : Not Applicable Passenger and Cargo Maximum Qty / Pack : Not Applicable Passenger and Cargo Limited Quantity Packing Instructions : Not Applicable Passenger and Cargo Limited Maximum Qty / Pack : Not Applicable |

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | |
|-----------------|----------------|
| 14.1. UN number | Not Applicable |
|-----------------|----------------|

| | | |
|------------------------------------|--------------------|----------------|
| 14.2. Packing group | Not Applicable | |
| 14.3. UN proper shipping name | Not Applicable | |
| 14.4. Environmental hazard | Not Applicable | |
| 14.5. Transport hazard class(es) | IMDG Class | Not Applicable |
| | IMDG Subrisk | Not Applicable |
| 14.6. Special precautions for user | EMS Number | Not Applicable |
| | Special provisions | Not Applicable |
| | Limited Quantities | Not Applicable |

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| | | |
|------------------------------------|---------------------|----------------|
| 14.1. UN number | Not Applicable | |
| 14.2. Packing group | Not Applicable | |
| 14.3. UN proper shipping name | Not Applicable | |
| 14.4. Environmental hazard | No relevant data | |
| 14.5. Transport hazard class(es) | Not Applicable | Not Applicable |
| | | |
| 14.6. Special precautions for user | Classification code | Not Applicable |
| | Limited quantity | Not Applicable |
| | Equipment required | Not Applicable |
| | Fire cones number | Not Applicable |

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION**15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

| | |
|---|--|
| water(7732-18-5) is found on the following regulatory lists | "European Customs Inventory of Chemical Substances ECICS (English)","European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)","EU REACH Regulation (EC) No 1907/2006 - Annex IV - Exemptions from the Obligation to Register in Accordance with Article 2(7)(a) (English)" |
|---|--|

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Regulation (EU) No 453/2010, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation: - The Control of Substances Hazardous to Health Regulations (COSHH) 2002 - COSHH Essentials - The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

ECHA SUMMARY

| Ingredient | CAS number | Index No | ECHA Dossier |
|------------|------------|---------------|---------------|
| water | 7732-18-5 | Not Available | Not Available |

| Harmonisation (C&L Inventory) | Hazard Class and Category Code(s) | Pictograms Signal Word Code(s) | Hazard Statement Code(s) |
|-------------------------------|---|--------------------------------|--------------------------|
| 2 | Acute Tox. 3, Skin Corr. 1A, Acute Tox. 2, Flam. Liq. 3 | GHS05, Dgr, GHS06, GHS02, Wng | H314, H301, H226 |

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

SECTION 16 OTHER INFORMATION**Full text Risk and Hazard codes**

| | |
|------|---|
| H226 | Flammable liquid and vapour |
| H301 | Toxic if swallowed |
| H314 | Causes severe skin burns and eye damage |

Other information**DSD / DPD label elements**

Not Applicable

Relevant risk statements are found in section 2.1

| | |
|-------------------------|----------------|
| Indication(s) of danger | Not Applicable |
|-------------------------|----------------|

SAFETY ADVICE

Continued...

S02 | Keep out of reach of children.

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

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