

## 316273 Lyreco Highlighter Green

Lyreco Group (Lyreco France)

Chemwatch: 35-3302  
 Version No: 2.1.1.1  
 Safety Data Sheet (Conforms to Regulations (EC) No 453/2010)

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 S.REACH.GBR.EN

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

#### 1.1. Product Identifier

**Product name:** 316273 Lyreco Highlighter Green  
**Chemical Name:** Not Applicable  
**Synonyms:** Product Code: 316273  
**Proper shipping name:** Not Applicable  
**Chemical formula:** Not Applicable  
**Other means of identification:**  
**CAS number:** Not Applicable  
**EC number:** Not Applicable  
**Index number:** Not Applicable  
**REACH registration number:** Not Applicable

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

**Relevant identified uses:**  
**Uses advised against:** Not Applicable

#### 1.3. Details of the supplier of the safety data sheet

**Registered company name:** Lyreco Group (Lyreco France)  
**Address:** Rue du 19 Mars 1962 Marly 59770 France  
**Telephone:** +33 3 27 23 64 00 (9a.m-5p.m. CET.)  
**Fax:**  
**Website:**  
**Email:**

#### 1.4. Emergency telephone number

**Association / Organisation:**  
**Emergency telephone numbers:** +33 3 27 23 64 00 (9a.m-5p.m. CET.)  
**Other emergency telephone numbers:** +33 3 27 23 64 00 (9a.m-5p.m. CET.)

### SECTION 2 Hazards identification

#### 2.1. Classification of the substance or mixture

**Not considered a dangerous mixture according to directive 1999/45/EC, Reg.**

#### ChemWatch Hazard Ratings

	0	1	2	3	4
Flammability	0	1	2	3	4
Toxicity	0	1	2	3	4
Body Contact	0	1	2	3	4
Reactivity	0	1	2	3	4
Chronic	0	1	2	3	4

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

Not Applicable

#### Classification according to regulation (EC) No 1272/2008 [CLP]:

**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

#### 2.2. Label elements

##### CLP label elements

Not Applicable

**Signal word:** NOT APPLICABLE

##### Hazard statement(s):

Not Applicable

##### Supplementary statement(s):

Not Applicable

##### Precautionary statement(s): Prevention

Not Applicable

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

P102 Keep out of reach of children.

P103 Read label before use.

##### Precautionary statement(s): Response

Not Applicable

##### Precautionary statement(s): Storage

Not Applicable

**Precautionary statement(s): Disposal**

Not Applicable

**DSD / DPD label elements**

Not Applicable

Relevant risk statements are found in section 2.1

**Indication(s) of danger:** Not Applicable

**Safety advice:**

S02 Keep out of reach of children.

**2.3. Other hazards**

**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. 2. 3. 4.	100	ingredients determined to be non-hazardous including	Not Applicable	Not Applicable
1. 7732-18-5 2. 231-791-2 3. 4.		<a href="#">water</a>	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

**SECTION 4 First aid measures**

**4.1. Description of first aid measures**

**General:**

- If fumes, aerosols or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.
- **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 this product comes in contact with eyes:

- 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.

Treat symptomatically. If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

**Eye Contact:**

If this product comes in contact with eyes:

- 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:**

If skin or hair contact occurs:

- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

**Inhalation:**

- If fumes, aerosols or combustion products are inhaled remove from contaminated area.
- Other measures are usually unnecessary.

**Ingestion:**

- **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

**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:

### 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)

Exposure Pattern	Workers	General Population
Long term - dermal, systemic effects		
Long term - inhalation, systemic effects		
Long term - oral, systemic effects		
Long term - dermal, local effects		
Long term - inhalation, local effects		
Short term - dermal, systemic effects		
Short term - inhalation, systemic effects		
Short term - oral, systemic effects		
Short term - dermal, local effects		
Short term - inhalation, local effects		

#### Predicted No Effect Level (PNEC)

Compartment	Value
Fresh Water	Not Applicable
Marine Water	Not Applicable
Aqua	Not Applicable
Fresh water sediment	Not Applicable
Marine water sediment	Not Applicable
Soil	Not Applicable
STP	Not Applicable
ORAL	Not Applicable

#### Occupational Exposure Limits (OEL)

INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
<b>Emergency Limits</b>						
Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3		
water	500(ppm)	500(ppm)	500(ppm)	500(ppm)		
Ingredient	Original IDLH		Revised IDLH			
316273 Lyreco Highlighter Green						

## 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:

- Safety glasses with side shields

#### Skin protection:

See Hand protection below

#### Hand 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:

#### Recommended material(s):

##### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: 316273 Lyreco Highlighter Green

Material	CPI
BUTYL	A
NEOPRENE	A
VITON	A

\* CPI - Chemwatch Performance Index

#### Respiratory protection:

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	-AUS	-	-PAPR-AUS / Class 1
up to 50 x ES	-	-AUS / Class 1	-
up to 100 x ES	-	-2	-PAPR-2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

### 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

Physical state	Liquid	Relative density (Water = 1)	1.1
Odour		Partition coefficient n-octanol / water	
Odour threshold		Auto-ignition temperature (°C)	
pH (as supplied)	6-7	Decomposition temperature	
Melting point / freezing point (°C)		Viscosity (cSt)	5
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)		Taste	
Evaporation rate		Explosive properties	
Flammability		Oxidising properties	
Upper Explosive Limit (%)		Surface Tension (dyn/cm or mN/m)	
Lower Explosive Limit (%)		Volatile Component (%vol)	
Vapour pressure (kPa)		Gas group	
Solubility in water (g/L)	Miscible	pH as a solution(1%)	
Vapour density (Air = 1)			

### 9.2. Other information

## SECTION 10 Stability and reactivity

### 10.1. Reactivity:

See section 7.2

### 10.2. Chemical stability:

- 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

**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 health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.

**TOXICITY** | **IRRITATION**

**316273 Lyreco Highlighter Green**

*water*

\* Value obtained from manufacturer's msds

**316273 Lyreco Highlighter Green, WATER**

No significant acute toxicological data identified in literature search.

<b>Acute Toxicity:</b>	Not Applicable	<b>Carcinogenicity:</b>	Not Applicable
<b>Skin Irritation/Corrosion:</b>	Not Applicable	<b>Reproductivity:</b>	Not Applicable
<b>Serious Eye Damage/Irritation:</b>	Not Applicable	<b>STOT - Single Exposure:</b>	Not Applicable
<b>Respiratory or Skin sensitisation:</b>	Not Applicable	<b>STOT - Repeated Exposure:</b>	Not Applicable
<b>Mutagenicity:</b>	Not Applicable	<b>Aspiration Hazard:</b>	Not Applicable

**CMR STATUS**

**SECTION 12 Ecological information**

**12.1. Toxicity**

**12.2. Persistence and degradability**

<b>Ingredient</b>	<b>Persistence: Water/Soil</b>	<b>Persistence: Air</b>
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**12.3. Bioaccumulative potential**

<b>Ingredient</b>	<b>Bioaccumulation</b>
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**12.4. Mobility in soil**

<b>Ingredient</b>	<b>Mobility</b>
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**12.5. Results of PBT and vPvB assessment**

	<b>P</b>	<b>B</b>	<b>T</b>
<b>Relevant available data</b>			
<b>PBT and vPvB Criteria fulfilled?</b>			

**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:**

**Sewage disposal options:**

No relevant data

**SECTION 14 Transport information**

**Labels Required:**

**Marine Pollutant:** NO

HAZCHEM:

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

<b>14.1. UN number</b>		<b>14.4. Packing group</b>	
<b>14.2. UN proper shipping name</b>	Not Applicable	<b>14.5. Environmental hazard</b>	No relevant data

14.3. Transport hazard class(es)	Class:	14.6. Special precautions for user	Hazard identification (Kemler)
	Subrisk:		Classification code
			Hazard Label
			Special provisions
			limited quantity

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

14.1. UN number		14.4. Packing group	
14.2. UN proper shipping name		14.5. Environmental hazard	No relevant data
14.3. Transport hazard class(es)	ICAO/IATA Class:	14.6. Special precautions for user	Special provisions:
	ICAO / IATA Subrisk:		Cargo Only Packing Instructions:
	ERG Code:		Cargo Only Maximum Qty / Pack:
			Passenger and Cargo Packing Instructions:
			Passenger and Cargo Maximum Qty / Pack:
			Passenger and Cargo Limited Quantity Packing Instructions:
			Passenger and Cargo Maximum Qty / Pack:

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

14.1. UN number		14.4. Packing group	
14.2. UN proper shipping name		14.5. Environmental hazard	No relevant data
14.3. Transport hazard class(es)	IMDG Class:	14.6. Special precautions for user	EMS Number:
	IMDG Subrisk:		Special provisions:
			Limited Quantities:

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

14.1. UN number		14.4. Packing group	
14.2. UN proper shipping name		14.5. Environmental hazard	No relevant data
14.3. Transport hazard class(es)	:	14.6. Special precautions for user	Classification code
			Limited quantity
			Equipment required
			Fire cones number

#### 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

"Sigma-Aldrich Transport Information", "OSPAR National List of Candidates for Substitution – Norway", "International Fragrance Association (IFRA) Survey: Transparency List", "OECD List of High Production Volume (HPV) Chemicals", "IMO IBC Code Chapter 18: List of products to which the Code does not apply", "Europe Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food - Annex I: Substances", "EU REACH Regulation (EC) No 1907/2006 - Annex IV - Exemptions from the Obligation to Register in Accordance with Article 2(7)(a) (English)", "European Union (EU) Inventory of Ingredients used in Cosmetic Products", "Europe Substances Listed in EU Directives on Plastics in Contact with Food", "European Chemical Agency (ECHA) Classification & Labelling Inventory - Chemwatch Harmonised classification"

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		
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	Not Classified, Acute Tox. 3, Skin Corr. 1A, Acute Tox. 2	GHS05, Dgr, GHS06	H314, H301
1	Not Classified	GHS05, Dgr, GHS06	H314, H301

## SECTION 16 Other information

### Other information

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.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

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

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