# 4270555 WLT6 Lyreco Highlighter Asstd Col

Lyreco Group (Lyreco France)

Chemwatch: **4854-48** Version No: **2.1.1.1** 

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

Chemwatch Hazard Alert Code: 3

Issue Date: 06/04/2013 Print Date: 02/19/2015 Initial Date: Not Available S.REACH.GBR.EN

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

#### 

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

Not Applicable

	<u>-</u>
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

Index number

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	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	1	1	
Toxicity	2		0 = Minimum
Body Contact	0		1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	3		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	Тесттринови
regulation (EC) No	Not Applicable
1272/2008 [CLP]	

#### 2.2. Label elements

Z.Z. Edber cicilicitis	
CLP label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

# Hazard statement(s)

Not Applicable

# Supplementary statement(s)

EUH210 Safety data sheet available on request

Chemwatch: 4854-48 Page 2 of 10 Issue Date: 06/04/2013 Version No: 2.1.1.1 Print Date: 02/19/2015

# 4270555 WLT6 Lyreco Highlighter Asstd Col

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

Cumulative effects may result following exposure*.
May affect fertility*.
May be harmful to the foetus/ embryo*.

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,		
1.64-17-5 2.200-578-6 3.603-002-00-5 4.01-2119457610-43-XXXX	<10	ethanol	R11 <sup>[2]</sup>	Flam. Liq. 2; H225 <sup>[3]</sup>
1.107-21-1 2.203-473-3 3.603-027-00-1 4.01-2119456816-28-XXXX	<10	ethylene glycol	R22 <sup>[2]</sup>	Acute Tox. 4 *; H302 [3]
Not Available     Not Available     Not Available     Anot Available	>60	ingredients determined to be non-hazardous	Not Applicable	Not Applicable
	4. Classified by Champataby 2. Classification drawn from EC Direction 67/E49/EEC. Appendix 2. Classification drawn from EC Direction 4279,0000. Appendix			

Legend:

# **SECTION 4 FIRST AID MEASURES**

# 4.1. Description of first aid measures

	Immediately give a glass of water.
	First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
	If fumes, aerosols or combustion products are inhaled remove from contaminated area.
	Other measures are usually unnecessary.
	If this product comes in contact with eyes:
General	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.
	If skin or hair contact occurs:
	<ul><li>Flush skin and hair with running water (and soap if available).</li></ul>
	▶ Seek medical attention in event of irritation.
	If this product comes in contact with eyes:
Fire Contact	Wash out immediately with water.
Eye Contact	▶ If irritation continues, seek medical attention.
	<ul> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
	If skin or hair contact occurs:

#### Skin Contact

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.

#### Immediately give a glass of water. Ingestion

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

# 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

<sup>1.</sup> 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

Chemwatch: 4854-48 Page 3 of 10

Version No: 2.1.1.1

Issue Date: 06/04/2013 Print Date: 02/19/2015 4270555 WLT6 Lyreco Highlighter Asstd Col

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

To treat poisoning by the higher aliphatic alcohols (up to C7):

- Gastric lavage with copious amounts of water
- It may be beneficial to instill 60 ml of mineral oil into the stomach.
- Oxygen and artificial respiration as needed.
- Electrolyte balance: it may be useful to start 500 ml. M/6 sodium bicarbonate intravenously but maintain a cautious and conservative attitude toward electrolyte replacement unless shock or severe acidosis threatens
- To protect the liver, maintain carbohydrate intake by intravenous infusions of glucose.
- Haemodialysis if coma is deep and persistent. [GOSSELIN, SMITH HODGE: Clinical Toxicology of Commercial Products, Ed 5)

#### BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for shock
- Monitor and treat, where necessary, for pulmonary oedema.
- Anticipate and treat, where necessary, for seizures
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- Give activated charcoal.

#### ADVANCED TREATMENT

- ▶ Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- If the patient is hypoglycaemic (decreased or loss of consciousness, tachycardia, pallor, dilated pupils, diaphoresis and/or dextrose strip or glucometer readings below 50 mg), give 50% dextrose
- ▶ Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Acidosis may respond to hyperventilation and bicarbonate therapy.
- Haemodialysis might be considered in patients with severe intoxication
- Consult a toxicologist as necessary. BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

For C8 alcohols and above

Symptomatic and supportive therapy is advised in managing patients.

## **SECTION 5 FIREFIGHTING MEASURES**

# 5.1. Extinguishing media

▶ Alcohol stable foam

# 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

#### 5.3. Advice for firefighters

Fire Fighting

▶ Alert Fire Brigade and tell them location and nature of hazard.

Fire/Explosion Hazard

Combustible.

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

# 6.2. Environmental precautions

See section 12

Moderate hazard

# 6.3. Methods and material for containment and cleaning up

Minor Spills **Major Spills**  Remove all ignition sources.

6.4. Reference to other sections

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

# **SECTION 7 HANDLING AND STORAGE**

Chemwatch: 4854-48 Page 4 of 10

Version No: 2.1.1.1

# 4270555 WLT6 Lyreco Highlighter Asstd Col

Issue Date: 06/04/2013 Print Date: 02/19/2015

# 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	Metal can or drum     Packaging as recommended by manufacturer.	
Storage incompatibility	<ul> <li>Avoid reaction with oxidising agents</li> <li>Avoid strong acids, bases.</li> </ul>	

#### 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
UK Workplace Exposure Limits (WELs)	ethanol	Ethanol	1920 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
UK Workplace Exposure Limits (WELs)	ethylene glycol	Ethane-1,2-diol particulate / Ethane-1,2-diol vapour	10 mg/m3 / 52 mg/m3 / 20 ppm	10 mg/m3 / 4 mg/m3 / 40 ppm	Not Available	Sk
European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (English)	ethylene glycol	Ethylene glycol	52 mg/m3 / 20 ppm	104 mg/m3 / 40 ppm	Not Available	Skin
EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)	ethylene glycol	Ethylene glycol	52 mg/m3 / 20 ppm	104 mg/m3 / 40 ppm	Not Available	Skin

# **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethanol	Ethyl alcohol; (Ethanol)	Not Available	Not Available	Not Available
ethylene glycol	Ethylene glycol	10 ppm	40 ppm	60 ppm

Ingredient	Original IDLH	Revised IDLH
ethanol	15,000 ppm	3,300 [LEL] ppm
ethylene glycol	Not Available	Not Available
ingredients determined to be non-hazardous	Not Available	Not Available

### 8.2. Exposure controls

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> <li>▶ Safety glasses with side shields</li> <li>▶ Chemical goggles.</li> </ul>	
Skin protection	See Hand protection below	

Body protection	5
Other protection	

Hands/feet protection Wear protective gloves, e.g. PVC.

See Other protection below Overalls.

Thermal hazards Not Available Version No: 2.1.1.1

# 4270555 WLT6 Lyreco Highlighter Asstd Col

Issue Date: **06/04/2013**Print Date: **02/19/2015** 

## 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:

4270555 WLT6 Lyreco Highlighter Asstd Col

Material	СРІ
NEOPRENE	A
NITRILE	A
NITRILE+PVC	A
PE/EVAL/PE	A
PVC	A
NATURAL RUBBER	В
NATURAL+NEOPRENE	В

<sup>\*</sup> 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

Type A-P Filter of sufficient capacity.

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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - 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

A	Coloured liquid with a characteristic odour; mixes with water.		
Appearance	Coloured liquid with a distracteristic cood, mixes with water.		
Plantalatet	Deleting descript, (Material A) New Audickle		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	4.3	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	3
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)	2.3	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

Chemwatch: 4854-48 Page 6 of 10 Issue Date: 06/04/2013 Version No: 2.1.1.1

# 4270555 WLT6 Lyreco Highlighter Asstd Col

Print Date: 02/19/2015

# **SECTION 11 TOXICOLOGICAL INFORMATION**

TOXICITY

#### 11.1. Information on toxicological effects

4270555 WLT6 Lyreco

4270555 WLT6 Lyreco

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	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

IRRITATION

Highlighter Asstd Col	Not Available	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup>	Eye (rabbit): 500 mg SEVERE	
ethanol	Inhalation (rat) LC50: 64000 ppm/4h <sup>[2]</sup>	Eye (rabbit):100mg/24hr-moderate	
	Oral (rat) LD50: >11872769 mg/kg <sup>[1]</sup>	Skin (rabbit):20 mg/24hr-moderate	
		Skin (rabbit):400 mg (open)-mild	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 9530 mg/kgD <sup>[2]</sup>	Eye (rabbit): 100 mg/1h - mild	
athylana ahaal	Inhalation (rat) LC50: 50.1 mg/L/8 hr <sup>[2]</sup>	Eye (rabbit): 12 mg/m3/3D	
ethylene glycol	Oral (rat) LD50: 4700 mg/kgd <sup>[2]</sup>	Eye (rabbit): 1440mg/6h-moderate	
		Eye (rabbit): 500 mg/24h - mild	
		Skin (rabbit): 555 mg(open)-mild	
	1 Value obtained from Europa ECMA Desistand Substances Asute toxicity 2 Value obtained from manufactured and substances designed data		

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's msds unless otherwise specified data Legend: extracted from RTECS - Register of Toxic Effect of chemical Substances

Highlighter Asstd Col	No significant acute toxicological data identified in literature search.
ETHANOL	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.
ETHYLENE GLYCOL	For ethylene glycol: Ethylene glycol is quickly and extensively absorbed through the gastrointestinal tract.

[Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells.

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

✓ – Data required to make classification available Legend:

🗶 – Data available but does not fill the criteria for classification

Not Available to make classification

# **CMR STATUS**

SKIN	ethylene glycol	European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) - Skin	Skin

# **SECTION 12 ECOLOGICAL INFORMATION**

# 12.1. Toxicity

DO NOT discharge into sewer or waterways.

# 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)

# 12.3. Bioaccumulative potential

Chemwatch: **4854-48** Page **7** of **10** 

Version No: 2.1.1.1

# 4270555 WLT6 Lyreco Highlighter Asstd Col

Issue Date: **06/04/2013** Print Date: **02/19/2015** 

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)
ethylene glycol	LOW (BCF = 200)

# 12.4. Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
ethylene glycol	HIGH (KOC = 1)

# 12.5. Results of PBT and vPvB assessment

	P	В	Т
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

Land transport (NEW). Not Report and Total Order of Edition Constitution of the Editio		
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	No relevant data		
14.5. Transport hazard class(es)	ICAO/IATA Class Not Applicable  ICAO / IATA Subrisk Not Applicable  ERG Code Not Applicable			
	Special provisions  Cargo Only Packing Instructions	Not Applicable  Not Applicable		
	Cargo Only Maximum Qty / Pack	Not Applicable		
14.6. Special precautions for user	Passenger and Cargo Packing Instructions	Not Applicable		
uooi	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		

Chemwatch: **4854-48**Page **8** of **10**Issue Date: **06/04/2013**Version No: **2.1.1.1**Print Date: **02/19/2015** 

# 4270555 WLT6 Lyreco Highlighter Asstd Col

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

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	ethylene glycol	Υ

# **SECTION 15 REGULATORY INFORMATION**

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

ethanol(64-17-5) 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)", "UK Workplace Exposure Limits (WELs)", "EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles", "European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI", "European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31"

ethylene glycol(107-21-1) is found on the following regulatory lists "EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Lithuanian)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Slovak)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Polish)","European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (French)", "European Customs Inventory of Chemical Substances ECICS (English)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Slovenian)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Swedish)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Italian)", "European Trade Union Confederation (ETUC) Priority List for REACH Authorisation", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Danish)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Maltese)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (English)","European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Latvian)", "UK Workplace Exposure Limits (WELs)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (German)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Spanish)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Finnish)", "European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Greek)", "European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of Dangerous Substances - updated by ATP: 31", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Portuguese)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Hungarian)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Romanian)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Czech)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Bulgarian)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Dutch)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Estonian)"

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

Chemwatch: **4854-48** Page **9** of **10** 

Version No: 2.1.1.1

# 4270555 WLT6 Lyreco Highlighter Asstd Col

Issue Date: **06/04/2013**Print Date: **02/19/2015** 

ethanol	64-17-5	603-002-00-5	01-2119457610-43-XXXX
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Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Flam. Liq. 2	GHS02, Dgr	H225
2	Flam. Liq. 2, Eye Irrit. 2, STOT RE 1, Muta. 1B, Repr. 1A, Acute Tox. 3, STOT SE 1, Met. Corr. 1, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1	Dgr, GHS01, GHS08, Wng, GHS06, GHS05	H225, H319, H340, H304, H372, H315, H220, H360, H301, H311, H331, H370
1	Carc. 2	GHS08, Wng	H351
2	Carc. 2	GHS08, Wng	H351

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

Ingredient	CAS number	Index No	ECHA Dossier
ethylene glycol	107-21-1	603-027-00-1	01-2119456816-28-XXXX

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 4	GHS07, Wng	H302
2	Acute Tox. 4, Skin Irrit. 2, Muta. 1B, Repr. 1B, STOT SE 1, STOT RE 1, Aquatic Chronic 3, Eye Irrit. 2, Org. Perox. G	Wng, GHS08, Dgr	H302, H319, H332, H340, H360, H370, H372, H412, H315

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

#### **SECTION 16 OTHER INFORMATION**

## Full text Risk and Hazard codes

H220	Extremely flammable gas
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H340	May cause genetic defects
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects
R11	Highly flammable.
R22	Harmful if swallowed.

### 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

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.

Chemwatch: 4854-48 Issue Date: 06/04/2013 Page 10 of 10 Version No: 2.1.1.1 Print Date: 02/19/2015

# 4270555 WLT6 Lyreco Highlighter Asstd Col

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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