# 467491 Lyreco Flipchart Marker B/Tip Red

Lyreco Group (Lyreco France)

Chemwatch: **35-3311** Version No: **2.1.1.1** 

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

Chemwatch Hazard Alert Code: 3

Issue Date: 04/18/2013 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

# 1.1.Product Identifier

Product name	467491 Lyreco Flipchart Marker B/Tip Red		
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	Marker pen. 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 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		
Toxicity	0	0 = Minimu	m
Body Contact	0	1 = Low 2 = Modera	to
Reactivity	1	3 = High	ıc
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

Zizi Zuboi didilidilid	
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: **35-3311** Page **2** of **10** 

Version No: 2.1.1.1

#### 467491 Lyreco Flipchart Marker B/Tip Red

Issue Date: **04/18/2013**Print Date: **02/19/2015** 

# 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 be harmful to the foetus/ embryo*.	
May affect fertility*.	

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,		
1.111-46-6 2.203-872-2 3.603-140-00-6 4.01-2119457857-21-XXXX	2.5-10	diethylene glycol	R22 <sup>[2]</sup>	Acute Tox. 4 *; H302 <sup>[3]</sup>
1.107-21-1 2.203-473-3 3.603-027-00-1 4.01-2119456816-28-XXXX	2.5-10	ethylene glycol	R22 <sup>[2]</sup>	Acute Tox. 4 *; H302 <sup>[3]</sup>
1.1934-21-0 2.217-699-5 3.Not Available 4.Not Available	NotSpec.	C.I. Acid Yellow 23	R36/37/38, R42/43 <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2, Respiratory Sensitizer Category 1, Skin Sensitizer Category 1, STOT - SE (Resp. Irr.) Category 3; H315, H319, H334, H317, H335 [1]
1.Not Available     2.Not Available     3.Not Available     4.Not Available	>60	ingredients, non-hazardous	Not Applicable	Not Applicable
Legend:	1 Classified	by Chemwatch: 2 Class	ification drawn from FC Directive 67	7/548/EEC - Annex I: 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Legen

. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex V

4. Classification drawn from C&L

## **SECTION 4 FIRST AID MEASURES**

#### 4.1. Description of first aid measures

· · · · · · · · · · · · · · · · · · ·	
	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.
  - 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.

# 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

General

# 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.

Chemwatch: 35-3311 Page 3 of 10 Issue Date: 04/18/2013 Version No: 2.1.1.1

### 467491 Lyreco Flipchart Marker B/Tip Red

Print Date: 02/19/2015

#### 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

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. W6 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 droot.
- 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

Chemwatch: **35-3311** Page **4** of **10** 

Version No: 2.1.1.1

# 467491 Lyreco Flipchart Marker B/Tip Red

Issue Date: **04/18/2013** Print Date: **02/19/2015** 

### 6.3. Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> </ul>
Major Spills	Moderate 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  ▶ Metal can or drum  ▶ Packaging as recommended by manufacturer.	
Storage incompatibility	► Avoid strong acids, bases.

### 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)	diethylene glycol	2,2'-Oxydiethanol	101 mg/m3 / 23 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
diethylene glycol	Diethylene glycol	6.9155 ppm	80 ppm	250 ppm
ethylene glycol	Ethylene glycol	10 ppm	40 ppm	60 ppm

Ingredient	Original IDLH	Revised IDLH
diethylene glycol	Not Available	Not Available
ethylene glycol	Not Available	Not Available
C.I. Acid Yellow 23	Not Available	Not Available
ingredients, non-hazardous	Not Available	Not Available

#### 8.2. Exposure controls

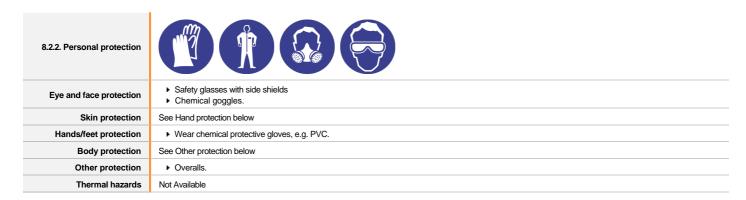
8.2.1. Appropriate	
engineering controls	

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.

Version No: 2.1.1.1

#### 467491 Lyreco Flipchart Marker B/Tip Red

Issue Date: **04/18/2013**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:

467491 Lyreco Flipchart Marker B/Tip Red

Material	CPI
NITRILE	A

<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

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

## 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	Red liquid with a characteristic odour; mixes with water.		
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)	225 (ignition temp.)
pH (as supplied)	7.5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	111	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	53.0	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.7	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

Chemwatch: 35-3311 Page 6 of 10 Issue Date: 04/18/2013 Version No: 2.1.1.1 Print Date: 02/19/2015

# 467491 Lyreco Flipchart Marker B/Tip Red

10.2.Chemical stability	► Unstable in the presence of incompatible materials.	
10.3. Possibility of hazardous reactions		
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**

1	1.	1.	Information	on toxicological effect	cts

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 <b>NOT</b> 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.		
	•		
467491 Lyreco Flipchart Marker B/Tip Red	TOXICITY  Not Available	IRRITATION  Not Available	

	Not Available	Not Available
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 11890 mg/kgd <sup>[2]</sup>	Eye (rabbit) 50 mg mild
diethylene glycol	Oral (rat) LD50: 12000 mg/kg <sup>[2]</sup>	Skin (human): 112 mg/3d-l mild
		Skin (rabbit): 500 mg mild
	тохісіту	IRRITATION
	Dermal (rabbit) LD50: 9530 mg/kgD <sup>[2]</sup>	Eye (rabbit): 100 mg/1h - mild
athe days where I	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
	тохісіту	IRRITATION
C.I. Acid Yellow 23	Oral (rat) LD50: >2000 mg/kg <sup>[2]</sup>	Nil reported
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's msds unless otherwise specified data	

Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's msds unless otherwise specified of extracted from RTECS - Register of Toxic Effect of chemical Substances	
467491 Lyreco Flipchart Marker B/Tip Red	No significant acute toxicological data identified in literature search.	

DIETHYLENE GLYCOL	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.
	The following information refers to contact allergens as a group and may not be specific to this product.

C.I. ACID YELLOW 23	The following information refers to contact allergens as a group and may not be specific to this product. Suspected allergen *[Hawley's]
---------------------	---

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

Legend:

✓ – Data required to make classification available
 X – Data available but does not fill the criteria for classification
 ○ – Data Not Available to make classification

# **CMR STATUS**

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

Issue Date: **04/18/2013**Print Date: **02/19/2015** 

### **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
diethylene glycol	LOW	LOW
ethylene glycol	LOW (Half-life = 24 days)	LOW (Half-life = 3.46 days)
C.I. Acid Yellow 23	HIGH	HIGH

### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
diethylene glycol	LOW (BCF = 180)
ethylene glycol	LOW (BCF = 200)
C.I. Acid Yellow 23	LOW (BCF = 3)

### 12.4. Mobility in soil

Ingredient	Mobility
diethylene glycol	HIGH (KOC = 1)
ethylene glycol	HIGH (KOC = 1)
C.I. Acid Yellow 23	LOW (KOC = 79.38)

### 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

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

Page 8 of 10 Issue Date: 04/18/2013 Version No: 2.1.1.1 Print Date: 02/19/2015 467491 Lyreco Flipchart Marker B/Tip Red

14.4. Environmental hazard  14.5. Transport hazard class(es)  14.6. Special precautions for user  14.6. Special precautions for user  Passenger and Cargo Packing Instructions  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Maximum Qty / Pack  Passenger and Cargo Limited Quantity Packing Instructions  Not Applicable  Passenger and Cargo Limited Quantity Packing Instructions  Not Applicable  Passenger and Cargo Limited Quantity Packing Instructions  Not Applicable  Passenger and Cargo Limited Quantity Packing Instructions  Not Applicable	14.3. UN proper shipping name	Not Applicable	
14.5. Transport hazard class(es)    ICAO / IATA Subrisk	14.4. Environmental hazard	No relevant data	
Cargo Only Packing Instructions  Cargo Only Packing Instructions  Not Applicable  Cargo Only Maximum Qty / Pack  Not Applicable  Passenger and Cargo Packing Instructions  Not Applicable  Not Applicable  Not Applicable	•	ICAO / IATA Subrisk Not Applicable	
Passenger and Cargo Limited Maximum Qty / Pack Not Applicable	•	Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions	Not Applicable Not Applicable Not Applicable Not Applicable 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

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

diethylene glycol(111-46-6) is found on the following regulatory lists	"European Customs Inventory of Chemical Substances ECICS (English)", "EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List of Substances", "European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)", "UK Workplace Exposure Limits (WELs)", "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"
	"EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)", "European Union (EU) First List of Indicative Occupational Exposure Lim 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

ethylene glycol(107-21-1) is found on the following regulatory lists 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 Chemwatch: **35-3311** Page **9** of **10** 

# Version No: 2.1.1.1 467491 Lyreco Flipchart Marker B/Tip Red

Issue Date: **04/18/2013**Print Date: **02/19/2015** 

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) (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) (Bulgarian)", "European Union (EU) First List of Indicative Occupational Exposure Limit Values (IOELVs) (Estonian)"

C.I. Acid Yellow

C.I. Acid Yellow 23(1934-21-0) 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)"

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
diethylene glycol	111-46-6	603-140-00-6	01-2119457857-21-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, STOT RE 2, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2	Wng, GHS08, Dgr	H302, H373, H319, H336, H315

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

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

Ingredient	CAS number	Index No	ECHA Dossier
C.I. Acid Yellow 23	1934-21-0	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	Skin Sens. 1, Resp. Sens. 1, Repr. 2, Aquatic Chronic 2	GHS08, Dgr, Wng, GHS09	H317, H334, H361, H411

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

# **SECTION 16 OTHER INFORMATION**

#### Full text Risk and Hazard codes

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

Chemwatch: 35-3311 Page 10 of 10 Issue Date: 04/18/2013 Version No: 2.1.1.1 Print Date: 02/19/2015

### 467491 Lyreco Flipchart Marker B/Tip Red

H412	Harmful to aquatic life with long lasting effects
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause SENSITISATION by inhalation and skin contact.

#### 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.

### Ingredients with multiple cas numbers

Name	CAS No
C.I. Acid Yellow 23	117209-34-4, 12000-64-5, 1342-47-8, 1342-53-6, 134240-82-7, 139601-06-2, 154881-98-8, 183808-13-1, 191807-79-1, 1934-21-0, 389057-90-3, 469888-21-9, 50809-64-8, 642-62-6, 84842-94-4

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

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.