

#### Lyreco

Chemwatch: **4854-13** Version No: **2.1.1.1** 

Safety Data Sheet (Conforms to Regulation (EU) No 2015/830)

Chemwatch Hazard Alert Code: 3 Issue Date: 04/22/2013

Print Date: 02/14/2017 S.REACH.GBR.EN

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

#### 1.1. Product Identifier

Product name	LYRECO PERMANENT MARKER C/TIP BLUE
Synonyms	151205 PK4 Lyreco Perm Marker B/Tip Asstd Col
Proper shipping name	PAINT or PAINT RELATED MATERIAL
Other means of identification	Not Available

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

 Relevant identified uses
 Permanent Marker. 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 supplier of the safety data sheet

Registered company name	Lyreco
Address	Deer Park Court, Donnington Wood Telford, TF2 7NB United Kingdom
Telephone	01952 286130
Fax	Not Available
Website	www.lyreco.co.uk
Email	steve.weston@lyreco.com

#### 1.4. Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

### **SECTION 2 HAZARDS IDENTIFICATION**

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

Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Classified as Dangerous Goods for transport purposes.

#### CHEMWATCH HAZARD RATINGS

Min	Max	i.
3		1
2		0 = Minimum
3		1 = Low 2 = Moderate
1		3 = High
2		4 = Extreme
	3 2 3 1	3 2 3 1

Classification according to regulation (EC) No 1272/2008 [CLP] <sup>[1]</sup>	Flammable Liquid Category 2, Serious Eye Damage Category 1, Germ cell mutagenicity Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects)
Legend:	1. Classified by Chernwatch; 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

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### Issue Date: 04/22/2013 Print Date: 02/14/2017

### LYRECO PERMANENT MARKER C/TIP BLUE

Hazard statement(s)			
H225	Highly flammable liquid and vapour.		
H318	auses serious eye damage.		
H341	uspected of causing genetic defects.		
H336	May cause drowsiness or dizziness.		
Supplementary statement(s	s)		
Not Applicable	·		
Precautionary statement(s)	) Prevention		
P101	If medical advice is needed, have product container or label at hand.		
Precautionary statement(s)	Response		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Precautionary statement(s)	) Storage		
P403+P235	Store in a well-ventilated place. Keep cool.		
Precautionary statement(s)	) Disposal		
P501	Dispose of contents/container in accordance with local regulations.		
2.3. Other hazards			
Inhalation, skin contact and/or inge	estion may produce health damage*.		
Cumulative effects may result follo	wing exposure*.		
May produce discomfort of the res	spiratory system and skin*.		
Limited evidence of a carcinogenie	c effect*.		
Repeated exposure potentially car	uses skin dryness and cracking*.		
C.I. Solvent Blue 4	Listed in the European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation		

### 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 regulation (EC) No 1272/2008 [CLP]
1.71-23-8 2.200-746-9 3.603-003-00-0 4.01-2119486761-29-XXXX	>50	n-propanol	Flammable Liquid Category 2, Serious Eye Damage Category 1, Specific target organ toxicity - single exposure Category 3 (narcotic effects); H225, H318, H336 <sup>[3]</sup>
1.298-07-7 2.206-056-4 3.Not Available 4.01-2119972334-35-XXXX	<2.5	di(2-ethylhexyl) acid phosphate	Metal Corrosion Category 1, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 1B, Serious Eye Damage Category 1, Germ cell mutagenicity Category 2, Reproductive Toxicity Category 2, Chronic Aquatic Hazard Category 4; H290, H312, H314, H341, H361, H413 <sup>[1]</sup>
1.6786-83-0 2.229-851-8 3.Not Available 4.01-2119950688-22-XXXX	<2.5	C.I. Solvent Blue 4	Not Applicable
Legend:		by Chemwatch; 2. Classif cation drawn from C&L	ication drawn from EC Directive 67/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 - Annex

### SECTION 4 FIRST AID MEASURES

4.1. Description	of first aid n	neasures
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	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
General	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> </ul>

	<ul> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>
Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs: <ul> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

#### 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. 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.

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- 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.
- A distance of the second second
- 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.
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#### 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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> </ul>		
Fire/Explosion Hazard	Liquid and vapour are flammable. Combustion products include: , carbon monoxide (CO) , carbon dioxide (CO2) , other pyrolysis products typical of burning organic material.		

#### 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	► Remove all ignition sources.
Major Spills	Clear area of personnel and move upwind.

#### 6.4. Reference to other sections

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

#### SECTION 7 HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Safe handling	<ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> </ul>
Fire and explosion protection	See section 5
Other information	<ul> <li>Store in original containers in approved flammable liquid storage area.</li> </ul>
7.2 Conditions for sofe of	rorago, including any incompatibilities

#### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Packing as supplied by manufacturer.</li> <li>For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type.</li> </ul>
Storage incompatibility	Alcohols ► are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents.

#### 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)	n-propanol	Propan-1-ol	500 mg/m3 / 200 ppm	625 mg/m3 / 250 ppm	Not Available	Sk

### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
n-propanol	n-Propanol (Propyl alcohol, n-)	250 ppm	670 ppm	4000 ppm

di(2-ethylhexyl) acid phosphate	Bis(2-ethylhexyl) hydrogen phosphate	15 mg/m3	160 mg/m3	980 mg/m3
di(2-ethylhexyl) acid phosphate	Butyl bis(2-ethylhexyl)phosphate	0.96 ppm		63 ppm
Ingredient	Original IDLH	Revised IDLH		
n-propanol	4,000 ppm	800 ppm		
di(2-ethylhexyl) acid phosphate	Not Available Not		Not Available	
C.I. Solvent Blue 4	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	► Safety glasses with side shields.
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> </ul>
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  $\ensuremath{\textit{computer-generated}}$  selection:

LYRECO PERMANENT MARKER C/TIP BLUE

Material	СРІ
NEOPRENE	А
NEOPRENE/NATURAL	A
NITRILE	A
NITRILE+PVC	A
TEFLON	А
VITON	В
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
PVC	С

\* 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.

#### 8.2.3. Environmental exposure controls

See section 12

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

## Respiratory protection

Type AB-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	Air-line*	AB-2 P2	AB-PAPR-2 P2 ^
up to 20 x ES	-	AB-3 P2	-
20+ x ES	-	Air-line**	-

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand

^ - Full-face

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

Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content. The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Appearance	Blue flammable liquid with a characteristic odour; does not mix with water.		
Physical state	Liquid	Relative density (Water = 1)	0.84
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	360

pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	4
Initial boiling point and boiling range (°C)	96	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	21	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	13.5	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	2.1	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	1.9 @ 20C	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	400.8

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	Inhalation of vapours may cause drowsiness and dizziness. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. Subjects unacclimatised to n-propanol exposure experienced mild irritation of the eyes, nose and throat at a concentration of 400 parts per million. Aliphatic alcohols with more than 3-carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes. Inhalation hazard is increased at higher temperatures. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.			
Ingestion	Overexposure to non-ring alcohols causes nervous system sympt Accidental ingestion of the material may be damaging to the heal			
Skin Contact	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. The calculated human skin permeability coefficient for n-propanol by the U.S. Environment Protection Agency is 1.3 x 10-3 cm/hr. Most liquid alcohols appear to act as primary skin irritants in humans. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.			
Eye	If applied to the eyes, this material causes severe eye damage.			
Chronic	Strong evidence exists that this substance may cause irreversible mutations (though not lethal) even following a single exposure. Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. N-propanol is shown to cause dose dependent severe liver injury, malignant tumours (blood and liver cancers) and benign tumours in rats. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes.			
LYRECO PERMANENT	ΤΟΧΙCITY	IRRITATION		
MARKER C/TIP BLUE	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: 4032 mg/kg <sup>[1]</sup>	Eye (rabbit): 20 mg/24h moderate		
n-propanol	Oral (rat) LD50: 1870 mg/kg <sup>[2]</sup>	Eye (rabbit): 4 mg open SEVERE		
		Skin (rabbit): 20 mg/24h moderate		
		Skin (rabbit): 500 mg open mild		

	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 1250 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.25 mg/24h-SEVERE
di(2-ethylhexyl) acid phosphate	Oral (rat) LD50: 4940 mg/kg <sup>[2]</sup>	Eye (rabbit): 5 mg - moderate
P P		Skin (rabbit): 5 mg/24h - SEVERE
		Skin (rabbit):500 mg(open)-mod
	ΤΟΧΙΟΙΤΥ	IRRITATION
C.I. Solvent Blue 4	Not Available	Not Available
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* extracted from RTECS - Register of Toxic Effect of chemical Substances</li> </ol>	* Value obtained from manufacturer's SDS. Unless otherwise specified data
N-PROPANOL	The material may cause skin irritation after prolonged or repeated exposure and scaling and thickening of the skin.	may produce on contact skin redness, swelling, the production of vesicles,
DI(2-ETHYLHEXYL) ACID PHOSPHATE	for acid mists, aerosols, vapours Data from assays for genotoxic activity in vitro suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5. Alkyl esters of phosphoric acid exhibit a low to moderate acute toxicity and metabolised. The material may cause severe 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. Asthma-like symptoms may continue for months or even years after exposure to the material ceases.	
LYRECO PERMANENT MARKER C/TIP BLUE & DI(2-ETHYLHEXYL) ACID PHOSPHATE & C.I. SOLVENT BLUE 4	No significant acute toxicological data identified in literature search.	
N-PROPANOL & DI(2-ETHYLHEXYL) ACID PHOSPHATE	The material may produce severe irritation to the eye causing pronounced inflammation.	
Acute Toxicity	⊗ Ca	arcinogenicity
Skin Irritation/Corrosion	© R	Reproductivity
Serious Eye Damage/Irritation	✓ STOT - Sin	ngle Exposure 🗸
Respiratory or Skin sensitisation	STOT - Repea	ated Exposure
Mutagenicity	✓ Aspi	iration Hazard
		Legend: X – Data available but does not fill the criteria for classification - Data available to make classification

🚫 - Data Not Available to make classification

# SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
n-propanol	LC50	96	Fish	163.437mg/L	3
n-propanol	EC50	48	Crustacea	=3642mg/L	1
n-propanol	EC50	96	Algae or other aquatic plants	861.193mg/L	3
n-propanol	EC50	384	Crustacea	37.744mg/L	3
di(2-ethylhexyl) acid phosphate	LC50	96	Fish	0.02mg/L	4
di(2-ethylhexyl) acid phosphate	EC50	48	Crustacea	60.7mg/L	4
di(2-ethylhexyl) acid phosphate	EC50	48	Algae or other aquatic plants	>0.1mg/L	4
Legend:	Aquatic Toxicity Data		IA Registered Substances - Ecotoxicological In latabase - Aquatic Toxicity Data 5. ECETOC Ac tion Data 8. Vendor Data		

#### DO NOT discharge into sewer or waterways.

### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
n-propanol	LOW	LOW
di(2-ethylhexyl) acid phosphate	HIGH	HIGH

### 12.3. Bioaccumulative potential

Ingredient

n-propanol	LOW (LogKOW = 0.25)
di(2-ethylhexyl) acid phosphate	LOW (BCF = 6)

### 12.4. Mobility in soil

· · · · · · · · · · · · · · · · · ·	
Ingredient	Mobility
n-propanol	HIGH (KOC = 1.325)
di(2-ethylhexyl) acid phosphate	LOW (KOC = 17160)

### 12.5.Results of PBT and vPvB assessment

	P	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT 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	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> </ul>
Waste treatment options	Not Available
Sewage disposal options	Not Available

### SECTION 14 TRANSPORT INFORMATION

### Labels Required

	3	
Marine Pollutant	NO	
HAZCHEM	•3Y	
Land transport (ADR)		
14.1.UN number	1263	
14.2.UN proper shipping name	PAINT or PAINT RELATED MATE	ERIAL
14.3. Transport hazard class(es)	Class 3 Subrisk Not Applicable	
14.4.Packing group	11	
14.5.Environmental hazard	Not Applicable	
14.6. Special precautions for user	Hazard identification (Kemler)	30 F1
	Hazard Label	3
	Special provisions	163 640E 650
	Limited quantity	5L

### Air transport (ICAO-IATA / DGR)

14.1. UN number	1263
14.2. UN proper shipping name	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)
14.3. Transport hazard class(es)	ICAO/IATA Class3ICAO / IATA SubriskNot ApplicableERG Code3L
14.4. Packing group	III
14.5. Environmental hazard	Not Applicable

Special provisions	A3 A72 A192
Cargo Only Packing Instructions	366
Cargo Only Maximum Qty / Pack	220 L
Passenger and Cargo Packing Instructions	355
Passenger and Cargo Maximum Qty / Pack	60 L
Passenger and Cargo Limited Quantity Packing Instructions	Y344
Passenger and Cargo Limited Maximum Qty / Pack	10 L
	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

### Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1263
14.2. UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
14.3. Transport hazard class(es)	IMDG Class     3       IMDG Subrisk     Not Applicable
14.4. Packing group	Ш
14.5. Environmental hazard	Not Applicable
14.6. Special precautions for user	EMS NumberF-E, S-ESpecial provisions163 223 367 955Limited Quantities5 L

#### Inland waterways transport (ADN)

14.1. UN number	1263	
14.2. UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)	
14.3. Transport hazard class(es)	3 Not Applicable	
14.4. Packing group	III	
14.5. Environmental hazard	Not Applicable	
	Classification code F1	
	Special provisions 163; 367; 640E; 650	
14.6. Special precautions for user	Limited quantity 5 L	
	Equipment required PP, EX, A	
	Fire cones number 0	

## Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### SECTION 15 REGULATORY INFORMATION

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

N-PROPANOL(71-23-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS	

placing on the market and use of certain dangerous substances, mixtures and articles	Dangerous Substances - updated by ATP: 31
European Customs Inventory of Chemical Substances ECICS (English)	European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and
European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)	Packaging of Substances and Mixtures - Annex VI
(English)	UK Workplace Exposure Limits (WELs)
DI(2-ETHYLHEXYL) ACID PHOSPHATE(298-07-7) IS FOUND ON THE FOLLOWING REGU	ILATORY LISTS
European Customs Inventory of Chemical Substances ECICS (English)	European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)
C.I. SOLVENT BLUE 4(6786-83-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS	
EU REACH Regulation (EC) No 1907/2006 - Proposals to identify Substances of Very High Concern: Annex XV reports for commenting by Interested Parties	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 Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments	as applicable - : 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission
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

|--|

1

2

H314, H318, H302+H312

H302, H314, H318, H312,

H332, H335, H290

### LYRECO PERMANENT MARKER C/TIP BLUE

n-propanol	71-23-8	603-003-00-0	01-2119486761-29-XXXX		119486761-29-XXXX	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)		gnal Word Code(s)	Hazard Statement Code(s)
1	Flam. Liq. 2, Eye Dam. 1, STOT SE 3		GHS07, GHS02, GHS05, Dgr		2, GHS05, Dgr	H225, H318, H336
2	Flam. Liq. 2, Eye Dam. 1, STOT SE 3, Acute Tox. 4, Not Classified		GHS02, GHS05, Dgr, GHS08		5, Dgr, GHS08	H225, H318, H336, H302
Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.						
Ingredient	CAS number	Index No		ECHA Dossier		
di(2-ethylhexyl) acid phosphate	298-07-7	Not Available		01-2119972334-35-XXXX		
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)				Pictograms Signal Word Code(s)	Hazard Statement Code(s)

GHS07, GHS05, Dgr

GHS05, Dgr, Wng

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

Classified, STOT SE 3, Eye Irrit. 2, Skin Corr. 1A, Met. Corr. 1

Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1

Ingredient	CAS number	CAS number Index No ECHA I		HA Dossier	
C.I. Solvent Blue 4	6786-83-0 Not Available 01-211		-2119950688-22-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, H332	
2	Skin Sens. 1B, Aquatic Chronic 3, Acute Tox. 4, Not Classified, Aquatic Chronic 1, Aquatic Acute 1, Muta. 2, Carc. 1B, Flam. Liq. 2, Skin Sens. 1, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Carc. 1A, Acute Tox. 3, Carc. 2		Wng, GHS09, GHS08, Dgr, GHS02, GHS06	H317, H332, H341, H350, H225, H315, H319, H335, H301	

Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Skin Corr. 1B, Skin Irrit. 2, Aquatic Chronic 3, Not

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

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (n-propanol; di(2-ethylhexyl) acid phosphate; C.I.
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Υ
Korea - KECI	Υ
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

#### Full text Risk and Hazard codes

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H302+H312	Harmful if swallowed or if contact with skin
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H413	May cause long lasting harmful effects to aquatic life.

### 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 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: EN 166 Personal eye-protection EN 340 Protective clothing EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals and micro-organisms

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

PC — TWA: Permissible Concentration-Time Weighted Average PC — STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit<sub>o</sub> IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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