

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION, REVISION NUMBER AND DATE**

Product Name : P64 – EB FLUSHING SOLUTION  
 Product Code : C/126/\*\*\*/\*\*\*  
 Revision No : F  
 Date : 09/01

**2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS (nl - not listed in CHIP)**

<u>Chemical Name</u>	<u>%</u>	<u>CAS Number</u>	<u>TSCA Listed</u>	<u>EEC No</u>	<u>Hazard Symbol</u>	<u>Risk Phrases</u>
Lactic Acid Ethyl Ester	65 - 85	687-47-8	✓	211-694-1	St Andrews Cross	R37, 41
2-(2-Butoxyethoxy) Ethanol	< 5	112-34-5	✓	203-961-6	St Andrews Cross	R36

R36/37 = Irritating to the eyes and the respiratory system; R41 = Risk of serious damage to eyes;  
 The remaining ingredients, do not present a health hazard within the meaning of the EC/ CHIP2 regulations.

**3. HAZARDOUS IDENTIFICATION**

Classification (CHIP) : Irritant

Main Health Hazards : Risk of serious damage to eyes.  
 Not expected to present any hazards to health under normal conditions of expected use.

**4. FIRST AID**

Inhalation : Move casualty to fresh air.  
 Skin Contact : Wash affected area with soap and water  
 Eye Contact : Rinse immediately with copious amounts of water. If redness or soreness persists, seek medical advice.  
 Ingestion : DO NOT induce vomiting. Encourage the casualty to drink water. Seek medical advice.  
 Do not use :

**5. FIRE FIGHTING MEASURES**

Flammability : Product is not classified as flammable (Flash Point 61°C), but is combustible.  
 Combustion products : Oxides of Carbon.  
 Extinguishing media : In the event of a fire use CO2, Foam, Dry Powder, or Vapourising Liquid.  
 Do not use : Water Jet.  
 Measures :

**6. ACCIDENTAL RELEASE MEASURE**

Mop or soak up spillages absorbent material.  
 Dispose of in accordance with Local Authority Regulations.

**7. HANDLING AND STORAGE**

Handling : Avoid prolonged skin contact. Wear gloves and safety glasses if splashing is likely.  
 Fire Prevention : Avoid heat and sources of ignition  
 Storage : Normal cool warehouse conditions. Keep in closed container.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Respiratory protection : Keep work area well ventilated.  
 Eye and Skin protection : Wear safety glasses and gloves if splashing is likely.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)**

**OCCUPATIONAL EXPOSURE LIMITS :**

Substance listed in EH40/--	Long term (8 Hrs)		Short term (10 min)	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Lactic Acid Ethyl Ester	Not assigned by HSE (1) or ACGIH (2)			
2-(2-Butoxyethoxy)Ethanol	Not assigned by HSE (1) or ACGIH (2)			

**9. PHYSICAL AND CHEMICAL PROPERTIES** (n.d.a = No data available)

Form : Coloured liquid	pH : n/a	Boiling Point: ~190°C
Flashpoint : ~ 61°C	Melting Point : ~ -34 °C	
Vapour Pressure : ~ 0.8 mm Hg @ 20°C	Vapour Density : ~ 4.5 (Air = 1)	
Solubility in Water : Miscible in water	Density : Approx. 1.0	
Autoignition Point : ~ 300 °C	Explosive Limits: Lower - 1.6% ; Upper - 10.6%	

**10. STABILITY AND REACTIVITY**

Chemical reactivity : None known

Decomposition products : None

Materials / conditions to avoid : None

**11. TOXICOLOGICAL INFORMATION**

LD<sub>50</sub> : Acute / oral / rat : > 3000mg/kg

**12. ECOLOGICAL INFORMATION**

Readily biodegradable; Bio-accumulation unlikely, hydrolyses in presence of water, acids, bases  
Lactic Acid Ethyl Ester: EC<sub>50</sub>/48h/Daphnia = 683mg/l LC<sub>50</sub>/48h/Fish = 320mg/l EC<sub>50</sub>/Algae = 2200mg/l  
2-(2-Butoxyethoxy)Ethanol: LC<sub>50</sub>/48h/Leuciscus idus = 1805-2304mg/l

**13. DISPOSAL CONSIDERATIONS**

Consult Local Authority for regulations regarding waste disposal

**14. TRANSPORT REGULATIONS**

Proper shipping name : Printing Ink Related Material	Packing group : III
UN Number : UN1210	IMDG class : 3.3
IMDG code :	RID/ADR : ADR Classification Code : F1
ICAO/IATA class : 3	Hazard warning sign : Flammable Liquid
Marine Pollutant :	

**15. REGULATORY INFORMATION**

<u>CHIP labelling</u> -	<u>Symbol</u> : St Andrews Cross	<u>Hazard</u> : Irritant	<u>Contains</u> : Lactic Acid Ethyl Ester
		Risk Phrases : R36/37, 41	& 2-Butoxyethoxy)Ethanol
		Safety phrases : S23, 25	

Other suggested labelling :  
R36/37 = irritating to the eyes and the respiratory system; R41 = Risk of serious damage to eyes  
S23 = Do not breathe vapour; S25 = Avoid contact with eyes.

**16. OTHER INFORMATION**

This safety data sheet has been updated to comply with CHIP regulations. The information is based solely on the data provided by the suppliers of the materials used and/or recognised technical sources, not on the mixture itself and is believed to be correct as of this date. No warranty is expressed or implied regarding the accuracy of the data.

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