

**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)			
N-Propyl - S Lactate	Not assigned by HSE (1) or ACGIH (2)			

**PHYSICAL AND CHEMICAL PROPERTIES**

Form : clear 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 g./cm <sup>3</sup>	
Autoignition Point : ~300 °C	Explosive Limits: Lower - 1.6% Upper - 10.6%	

**STABILITY AND REACTIVITY**

Chemical reactivity : None  
 Decomposition products : None  
 Materials / conditions to avoid : None

**TOXICOLOGICAL INFORMATION**

N - Propyl -S-Lactate : LD<sub>50</sub> > 5000 mg/Kg body weight  
 Lactic Acid Ethyl Ester: LD<sub>50</sub> > 2500 mg/Kg body weight

**ECOLOGICAL INFORMATION**

Lactic Acid Ethyl Ester: Readily biodegradable; Bioaccumulation unlikely, hydrolyses in presence of water, acids, bases

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

**DISPOSAL CONSIDERATIONS**

Consult Local Authority for regulations regarding waste disposal

**TRANSPORT REGULATIONS**

Proper shipping name : Printing ink, flammable	Packing group : III
UN Number : UN1210	IMDG class : 3.2
IMDG code :	RID/ADR : ADR Item 5(b)
ICAO/IATA class : 3	Hazard warning sign : Flammable Liquid
Marine pollutant :	

**REGULATORY INFORMATION**

CHIP labelling -	Symbol : St. Andrews Cross	Hazard : Irritant Risk Phrases: R36, R41 Safety Phrases : S25	Contains : Lactic Acid Ethyl Ester N - Propyl -S - Lactate
Other suggested labelling : R36 = Irritating to the eyes; R41 = Risk of serious damage to eyes			

**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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