

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

## OCCUPATIONAL EXPOSURE LIMITS :

Substance listed in EH40/92	Long term (8Hrs)		Short term (10min)	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Lactic Acid Ethyl Ester/N-Propyl Lactate	Not assigned by HSE (1) or ACGIH (2)			
Cyclohexanone	25	100	100	400

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

Form : Coloured liquid	pH : Not applicable	Boiling Point : ~ 154°C
Flashpoint : ~53°C	Melting Point : -3 deg c	
Vapour Pressure : 1.65 - 2.1 mm Hg	Vapour Density : ~ 3.8 (Air = 1)	
Solubility in Water : Partially soluble in water	Density : ~1.0 gm/cm <sup>3</sup>	
Autoignition Point : 400°C	Explosive Limits: Lower : 1.6% upper : 12.0%	

**STABILITY AND REACTIVITY**

Chemical reactivity : None known.

Decomposition products : None.

Materials / conditions to avoid : Avoid all sources of heat and ignition.

**TOXICOLOGICAL INFORMATION**Acute toxicity: Lactic Acid Ethyl Ester/N-Propyl Lactate: LD<sub>50</sub>/oral/rat = 5000mg/Kg; Cyclohexanone: LD<sub>50</sub>/oral/rat 1620mg/Kg**ECOLOGICAL INFORMATION**Lactic Acid Ethyl Ester/N-Propyl Lactate: Readily biodegradable; Bioaccumulation unlikely, hydrolyses in presence of water, acids, bases

EC50/48h/Daphnia = 683mg/l

LC50/48h/Fish = 320mg/l

EC50/Algae = 2200mg/l

Cyclohexanone: Practically non-toxic to living resources LC50(96hr.) = 100-1000mg/l; No evidence of bioaccumulation or tainting of seafood

Metal Complex Dye: LC50/96h/Fish(cyprinus Carpio) = 2mg/l

**DISPOSAL CONSIDERATIONS**

Consult Local Authorities for approved method of disposal.

**TRANSPORT REGULATIONS**

Proper shipping name : Printing Ink, Flammable

UN Number : UN1210

IMDG code :

ICAO/IATA class : 3

Marine Pollutant :

Packing group : II

IMDG class : 3.2

RID/ADR : ADR Item (5b)

Hazard warning sign : Flammable Liquid

**REGULATORY INFORMATION**CHIP labelling -

St Andrews Cross

Symbol :

Risk Phrases : R10, R20, R41

Safety phrases : S16, S23

Hazard : Flammable & Harmful Contains : Lactic Acid Ethyl Ester/NPI,

&amp; Cyclohexanone

Other suggested labelling : R10 = Flammable ; R20 = Harmful by inhalation; R41 = Risk of serious damage to eyes  
S16 = Keep away from sources of ignition - no smoking; S23 = Do not breath fumes**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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