

# MATERIAL SAFETY DATA SHEET

## IDENTIFICATION OF THE SUBSTANCE / PREPARATION, REVISION NUMBER AND DATE

Product Name : 190 Black Ink  
Product Code : C/339/\*\*\*/\*\*\*  
Revision No : A

## COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS (nl - not listed in CHIP)

Chemical Name	%	CAS Number	EEC No	Hazard Symbol	R Phases
Lactic Acid Ethyl Ester	55 - 75	687-47-8	211-694-1	St Andrews Cross	R41
Metal Complex dye	< 10	-	-	None Required	R51/53
Butyl Di Glycol	>10	112--34-5	203-961-6	St Andrews Cross	R36
Monopropyleneglycol	>10	57-55-6	200-388-6	St Andrews Cross	R41

R36/38 = Irritating to the eyes and skin; R41 = Risk of serious damage to eyes; R51/53 = Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

The remaining ingredients, do not present a health hazard within the meaning of the EC/ CHIP2 regulations.

## 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.

## FIRST AID

Inhalation : Remove casualty to fresh air.

Skin Contact : Wash from skin using soap and water.

Eye Contact : Flush thoroughly with water. If soreness or redness persists, seek medical attention.

Ingestion : DO NOT induce vomiting, encourage casualty to drink water. Seek medical advice.

Do not use :

## 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 :

Measures :

## ACCIDENTAL RELEASE MEASURE

Mop or soak up spillage's in absorbent material. Dispose of in accordance with Local Authority Regulations.

## 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.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : Not essential.

Eye and Skin protection : Wear safety glasses and gloves if splashing is likely.

**EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)****OCCUPATIONAL EXPOSURE LIMITS :**

Substance listed in EH40/92	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)			

**PHYSICAL AND CHEMICAL PROPERTIES**

Form : Coloured liquid	pH : n/a	Boiling Point: ~154°C
Flashpoint : 61°C	Melting Point : ~ -3 °C	
Vapour Pressure : 1.65 mm Hg @ 20°C	Vapour Density : ~ 4.0 (Air = 1)	
Solubility in Water : Partially soluble in water	Density : Approx. 1.03	
Autoignition Point : ~ 400 °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**

LD50 : Acute / oral / rat : &gt; 3000mg/kg

**ECOLOGICAL INFORMATION**Lactic Acid Ethyl Ester: Readily biodegradable; Bioaccumulation unlikely,hydrolyses in presence of water, acids, basesEC<sub>50</sub>/48h/Daphnia = 683mg/l LC<sub>50</sub>/48h/Fish = 320mg/l EC<sub>50</sub>/Algae = 2200mg/lMetal Complex dye : LC<sub>50</sub>/96h/Fish(Cyprinus Carpio) = 2mg/l**DISPOSAL CONSIDERATIONS**

Consult Local Authority for regulations regarding waste disposal

**TRANSPORT REGULATIONS**

Proper shipping name : Printing ink, flammable

UN Number : UN1210

IMDG code :

ICAO/IATA class : 3

Marine pollutant :

Packing group : III

IMDG class : 3.2

RID/ADR : ADR Item 5(b)

Hazard warning sign : Flammable Liquid

**REGULATORY INFORMATION**

CHIP labelling -

Symbol :  
St.Andrews Cross

Hazard : Irritant

Risk Phrases:

R41 = Risk of serious damage to eyes

Contains : Lactic Acid Ethyl Ester

Other suggested labelling : Avoid contact with 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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