

MATERIAL SAFETY DATA SHEET

IDENTIFICATION OF THE SUBSTANCE / PREPARATION, REVISION NUMBER AND DATE

Product Name : P64 - 290D BLACK INK

Revision No : B

Date : 07/01/2009

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

Chemical Name	%	CAS Number	EEC No	Hazard Symbol	R Phases
Lactic Acid Ethyl Ester	70 - 90	687-47-8	211-694-1	St Andrews Cross	R41

R41 = Risk of serious damage to eyes;

The remaining ingredients, including the dye, 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, irritating to eyes and skin.

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 ³	ppm	mg/m ³
Lactic Acid Ethyl Ester	Not assigned by HSE (1) or ACGIH (2)			

PHYSICAL AND CHEMICAL PROPERTIES

Form : Black Colourled liquid	pH : n/a	Boiling Point: ~155°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 /oral/rat > 3000mg/Kg

ECOLOGICAL INFORMATION

Lactic Acid Ethyl Ester: 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

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: 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.

ACORN DIGITAL INKS LTD UNIT 5 VICTORIA BUSINESS CENTRE VICTORIA STREET ACCRINGTON LANCASHIRE
UNITEDKINGDOM BB5 0PG TEL/FAX +44 (0)1254 239 020 WEB SITE www.acorndigital.co.uk

