

MATERIAL SAFETY DATA SHEET

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

Product Name: **XAAR INK- BLACK**

Product Code: **TU-X-S-001B**

Revision No: C

Date: 07/2011

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	% CAS	Number	TSCA Listed	EEC No	Hazard Symbol	Risk Phrases
Lactid Acid butyl Ester	35 -55	34451-19-9	Y	252-036-3	Cruz St.Andrews	R38, R41
2-(2-Butoxyethoxy) Etanol	<30	112-34-5	Y	203-961-6	Cruz St.Andrews	R36
Metal complex dye	<15				N	R51, R53

R38, Irritating to the skin; 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/ CHIP 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: 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:

5. FIRE FIGHTING MEASURES

Flammability: Product is classed as non flammable

Combustion products: Oxides of Carbon

Extinguishing media: In the event of a fire use CO2, Foam, Dry Powder, or Vaporizing Liquid.

Do not use:

Measures:



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6. ACCIDENTAL RELEASE MEASURE

Mop or soak up spillage's in 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Not essential.

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 ³	ppm	mg/m ³
Lactic Acid Butyl Ester	5	30		

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Colored liquid

pH: Not applicable

Boiling Point: 200°C

Flashpoint: 111 C

Melting Point: - 39°C

Vapor Pressure: 0.14 mm Hg @ 20°C

Vapor Density: <1.0 (Air = 1.0)

Solubility in Water: Partially miscible in water

Density: 1.0 gm/cm³

Auto ignition Point: 380° C

Explosive Limits: Lower: 1.0 % @ 100°C Upper: 7.9% @ 150°C

10. STABILITY AND REACTIVITY

Chemical reactivity: Stable product

Decomposition products: None known

Materials / conditions to avoid: None

11. TOXICOLOGICAL INFORMATION

LD₅₀ > 5000 mg/Kg body weight



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12. ECOLOGICAL INFORMATION

Lactic Acid Butyl Ester: Readily biodegradable; Bio-accumulation unlikely, hydrolyses in presence of water, acids, bases

EC₅₀/48h/Daphnia = 423mg/l

LC₅₀/48h/Fish = 75mg/l

EC₅₀/Algae = 0.93g/l

13. DISPOSAL CONSIDERATIONS

Consult Local Authority for regulations regarding waste disposal

14. TRANSPORT REGULATIONS

Proper shipping name: Not applicable

Packing group: Not applicable

UN Number: Not applicable

IMDG class: Not applicable

IMDG code: Not applicable

RID/ADR: Not applicable

ICAO/IATA class: Not applicable

Hazard warning sign: St. Andrew's Cross

Marine pollutant:

15. REGULATORY INFORMATION

CHIP labeling: Contains Lactic Acid Butyl Ester

Hazard: Irritant

Symbol: St Andrews Cross

Risk phrases: R38, 41

Safety Phrases: S24/25

Other suggested labeling:

R51 / R53

S23

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 recognized 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.



THIS PRODUCT HAS BEEN MANUFACTURED IN CE/UK