

## ***IKonMac SARL***

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

Product Name : P64 - 290D BLACK INK

Product Code : LMSPI03\*KK\*\*

(C/120/\*\*\*/\*\*\*)

\* = Variable pack type & size codes

Revision No : J

Date : 05/07

### **2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

<u>Chemical Name</u>	<u>%</u>	<u>CAS Number</u>	<u>TSCA Listed</u>	<u>EEC No</u>	<u>Hazard Symbol</u>	<u>Risk Phrases</u>
Lactic Acid Ethyl Ester	65 - 85	687-47-8	4	211-694-1	St Andrews Cross	R37, 41
Metal Complex Dye	< 15	-	4	-	N	R51/53

R37 = Irritating to the respiratory system; 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/ 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 : Move casualty to fresh air.

Skin Contact : Wash affected area with soap and water

Eye Contact : Rinse immediately with copious amounts of water. If redness or soreness persists, seek medical advice.

Ingestion : DO NOT induce vomiting. Encourage the casualty to drink water. Seek medical advice.

Do not use :

## 5. 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 CO<sub>2</sub>, Foam, Dry Powder, or Vapourising Liquid.

Do not use : Water Jet.

Measures :

## 6. ACCIDENTAL RELEASE MEASURE

Mop or soak up spillages 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. Keep in closed container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : Keep work area well ventilated.

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

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

Form : Coloured 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%	

## 10. STABILITY AND REACTIVITY

Chemical reactivity : None known

Decomposition products : None

Materials / conditions to avoid : None

## 11. TOXICOLOGICAL INFORMATION

LD<sub>50</sub> : Acute / oral / rat : > 3000mg/kg

## 12. ECOLOGICAL INFORMATION

Lactic Acid Ethyl Ester: Readily biodegradable; Bio-accumulation 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  
Metal Complex Dye : LC<sub>50</sub>/96h/Cyprinus carpio = ~ 2mg/l

### 13. DISPOSAL CONSIDERATIONS

Consult Local Authority for regulations regarding waste disposal

### 14. TRANSPORT REGULATIONS

Proper shipping name : Not applicable  
UN Number : Not applicable  
IMDG code : Not applicable  
ICAO/IATA class : Not applicable  
Marine pollutant :

Packing group : Not applicable  
IMDG class : Not applicable  
RID/ADR : Not applicable  
Hazard warning sign : Not applicable

### 15. REGULATORY INFORMATION

CHIP labelling -  
ethyl Ester  
41

Symbol :

Hazard : Irritant  
St.Andrews Cross

Contains : Lactic Acid  
Risk Phrases: R37,

Safety Phrases: S23, 24/25

Other suggested labelling : R37 = Irritating to the respiratory system; R41 = Risk of serious damage to eyes;  
S23 = Do not breathe vapour; S24/25 = Avoid contact with skin and eyes

### 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 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.

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

Product Name : P64 – EB FLUSHING SOLUTION

Product Code : LMSPF01\*NC\*\* (C/126/\*\*\*/\*\*\*)

\* = Variable pack type & size codes

Revision No : K

Date : 05/07

## 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>%</u>	<u>CAS Number</u>	<u>TSCA Listed</u>	<u>EEC No</u>	<u>Hazard Symbol</u>	<u>Risk Phrases</u>
Lactic Acid Ethyl Ester	40 - 60	687-47-8	4	211-694-1	St Andrews Cross	R37, 41
2-(2-Butoxyethoxy) Ethanol	40 - 60	112-34-5	4	203-961-6	St Andrews Cross	R36

R36/37 = Irritating to the eyes and the respiratory system; R41 = Risk of serious damage to eyes;  
The remaining ingredients, 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 : Move casualty to fresh air.

Skin Contact : Wash affected area with soap and water

Eye Contact : Rinse immediately with copious amounts of water. If redness or soreness persists, seek medical advice.

Ingestion : DO NOT induce vomiting. Encourage the casualty to drink water. Seek medical advice.

Do not use :

#### 5. 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 CO<sub>2</sub>, Foam, Dry Powder, or Vapourising Liquid.

Do not use : Water Jet.

Measures :

#### 6. ACCIDENTAL RELEASE MEASURE

Mop or soak up spillages 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. Keep in closed container.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : Keep work area well ventilated.

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 <sup>3</sup>	ppm	mg/m <sup>3</sup>
Lactic Acid Ethyl Ester	Not assigned by HSE (1) or ACGIH (2)			
2-(2-Butoxyethoxy)Ethanol	Not assigned by HSE (1) or ACGIH (2)			

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

Form : Coloured 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	
Autoignition Point : ~ 300 °C	Explosive Limits: Lower - 1.6% ; Upper - 10.6%	

## 10. STABILITY AND REACTIVITY

Chemical reactivity : None known

Decomposition products : None

Materials / conditions to avoid : None

## 11. TOXICOLOGICAL INFORMATION

LD<sub>50</sub> : Acute / oral / rat : > 3000mg/kg

## 12. ECOLOGICAL INFORMATION

Readily biodegradable; Bio-accumulation unlikely, hydrolyses in presence of water, acids, bases

Lactic Acid Ethyl Ester: 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

## 13. DISPOSAL CONSIDERATIONS

Consult Local Authority for regulations regarding waste disposal

## 14. TRANSPORT REGULATIONS

Proper shipping name : Not applicable

UN Number : Not applicable

IMDG code : Not applicable

ICAO/IATA class : Not applicable

Marine pollutant :

Packing group : Not applicable

IMDG class : Not applicable

RID/ADR : Not applicable

Hazard warning sign : Not applicable

## 15. REGULATORY INFORMATION

CHIP labelling -

Acid Ethyl Ester

Butoxyethoxy)Ethanol

Symbol : St Andrews Cross

Hazard : Irritant

Risk Phrases : R36/37, 41

Contains : Lactic

& 2-

Safety phrases : S23, 25

Other suggested labelling :

R36/37 = irritating to the eyes and the respiratory system; R41 = Risk of serious damage to eyes

S23 = Do not breathe vapour; S25 = Avoid contact with eyes.

## 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 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.