



## EARTHLAB

A newly developed water based ink system based on natural/renewable ingredients, and using our innovative pH independent technology. Designed to give optimal performance on a wide range of coated and uncoated substrates.

**Up to 80% replacement of synthetic content with natural raw materials!**

Can be used in all flexographic print units, the ink should be dried with hot air or IR dryers in combination with good air flow across the web.

Suitable for a wide variety of applications such as: Labels, tags, sachets and till rolls.

The inks can be thermal transfer overprinted or hot foil blocked.

### **PROPERTIES**

### **BENEFITS**

Strong with excellent transfer properties	Improved print result and profitability
Excellent wet and dry rub when fully dried	Improved resistance properties
High or low slip properties if required	For a wider variety of end uses
Heat resistant (can be in excess of 200c )	Improved resistance
pH independent	<b>No more stabiliser!</b>
Fast drying for high print speeds	Improved productivity
Excellent press stability	Less waste and press down time
Sustainable raw materials	Very Environmentally friendly

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### **Availability**

Can be supplied as a base range or premixed colours to preferred shades or as a 4 colour Process set.

Inks are generally provided press ready, but water and/or a medium can be used for strength reduction.

A water based ink cleaner can be supplied on request.



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## MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER : EL  
TRADE NAME : EARTHLAB  
PRINTING DATE : 18/11/11      REVIEWED ON :18/07/14

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### 01. Identification

TRADE NAME  
EARTHLAB

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### 02. Composition / Information on Component

CHEMICAL CHARACTERISATION  
Water Based Acrylic Liquid

#### HAZARDOUS COMPONENTS

Ammonium Hydroxide  
Concentration : 0.01% - 0.5%      CAS number :1336-21-6

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### 03. Hazardous Identification

HAZARDOUS DESIGNATION  
Minor Irritant

PARTICULAR INFORMATION PERTAINING TO SPECIFIC RISK FOR  
HUMAN & ENVIRONMENT  
Not considered Hazardous

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### 04. First Aid Measures

#### GENERAL

Remove contaminated clothing. Wash affected areas with soap & water. Launder contaminated clothing before reuse.  
Seek medical attention if irritation occurs.

#### INHALATION

Remove from exposure. If breathing is difficult. Seek medical attention.

#### SKIN CONTACT

Wash affected areas with soapy water.

#### EYE CONTACT

Flush with plenty of water ( 10 to 15 minutes ). Use saline solution if available.

#### INGESTION

Dilute with water & induce vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Give oxygen if breathing is difficult.  
Seek medical attention if a large amount has been ingested.

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## **05. Fire Fighting Measures**

### **EXTINGUISHER MEDIA SUITABLE**

Not flammable

### **EXTINGUISHER MEDIA NOT SUITABLE**

Not flammable

### **SPECIAL RISK POSED BY THE SUBSTANCE OR BY THE ACTUAL PREPARATION, IT'S COMBUSTION PRODUCTS OR GASES DISCHARGED**

Not Flammable

### **PROTECTIVE EQUIPMENT**

Not Flammable

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## **06. Accidental release measures**

### **PERSONAL PRECAUTIONS**

Provide good ventilation. Refer to protective measures listed in 7 and 8.

### **ENVIRONMENTAL PRECAUTIONS**

If the product contaminates lakes, rivers or sewers, inform appropriate authorities in accordance with local regulations.

### **METHODS FOR CLEANING UP**

Remove by liquid absorbing material and process according to waste regulations.

Clean preferably with water, flush to sewer only if local regulations allow.

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## **07. Handling and storage**

### **INFORMATION**

Avoid contact with the skin or eyes. When using do not eat or drink.

Comply with the health and safety at work laws.

### **INFORMATION ABOUT PROTECTION AGAINST EXPLOSION OR FIRE**

Not Flammable

### **REQUIREMENTS TO BE MET BY STORE ROOMS AND CONTAINERS**

Recommended storage temperature—: 520C

Protect from freezing

Keep containers closed when not in use

### **INFORMATION ABOUT SEPARATION OF INCOMPATIBLE PRODUCTS**

None

### **FURTHER INFORMATION ABOUT STORAGE CONDITIONS**

None

**08. Exposure controls and personal protection**

**ADDITIONAL INFORMATION ABOUT ENGINEERING MEASURES**

Provide adequate ventilation

**COMPONENTS WITH CRITICAL VALUES THAT REQUIRE MONITORING AT THE WORKPLACE (EXPOSURE LIMITS)**

None

**PERSONAL PROTECTION EQUIPMENT**

Respiratory equipment. No extra breathing protection equipment is required

Skin protection. Use protective gloves

Eye protection. Use safety glasses

Body protection. None required

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**09. Physical and chemical properties**

**IMAGE**

Form	:	Liquid
Colour	:	Various
Odour	:	Characteristic (mild)

**RELEVANT SAFETY DATA**

None

**ADDITIONAL INFORMATION**

None

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**10. Stability and reactivity**

**CONDITIONS TO AVOID**

Stable under recommended storage and handling conditions ( see section 7 )

**MATERIALS TO AVOID**

None

**DANGEROUS DECOMPOSITION PRODUCTS**

Fire may create vapours/gases of CO<sub>2</sub>, CO, NO<sub>x</sub>

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**11. Toxicological information**

**EXPERIENCE OF PRACTICE**

Eye contact: no more than slightly irritating to the eyes, Long term: None Known

Skin contact: no more than slightly irritating to the skin, Long term: None known

Ingestion: unlikely to be harmful by ingestion LD<sub>50</sub> > 2000 mg/kg (estimated)

Inhalation: unlikely to be harmful or irritating on inhalation

**ADDITIONAL TOXICOLOGICAL INFORMATION**

There are no data on the preparation itself.



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## 12. Ecological information

### DETAILS ON ELIMINATION ( PERSISTANCE / DEGRADABILITY )

There are no data on the preparation itself

### ADDITIONAL ECOLOGICAL INFORMATION

Do not empty into water or sewer drains unless authorised.

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## 13. Disposal methods

### DISPOSAL CONSIDERATIONS

Dispose of or incinerate in accordance with corresponding regulations.

### CONTAMINATED PACKAGING

Unclean packaging must be disposed of in the same manner as the medium.

Contaminated packaging must be emptied of all residues and following appropriate cleaning, may be sent to a recycling plant.

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## 14. Transport Information

Not classified as dangerous for transport

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## 15. Regulatory information

### CLASSIFICATION ACCORDING TO EC DIRECTIVES

None

No EC risk and safety phrases apply.

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## 16. Other information

This product should be stored, handled and used in accordance with good industrial hygiene practice and in conformity with any legal requirements. The information contained herein is accurate to the best of our knowledge and belief and is intended to describe the product from the point of view of health and safety requirements.