

# MATERIAL SAFETY DATA SHEET



## BLUE ETCH RESIST INK 41-ER702 & 41-ER702-1

MEGA ELECTRONICS

REVISION No 3  
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1. **MANUFACTURER**  
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2. **HAZARDOUS INGREDIENTS:**  
2-Butoxy ethanol
3. **HAZARDS**  
Harmful by inhalation, in contact with skin and if swallowed. Irritating to respiratory system.
4. **FIRST AID MEASURES**  
**Inhalation**  
Symptoms: Strong irritation to the respiratory system  
Treatment: Remove the patient to fresh air. If unconscious rest in recovery position. In case of asphyxia initiate artificial respiration and get medical attention immediately.  
**Eye Contact**  
Symptoms: Irritation  
Treatment: Rinse with plenty of water for 15 minutes minimum, consult a doctor.  
**Skin Contact**  
Symptoms: Strong irritation  
Treatment: Wipe with absorbent paper or towels. Wash with plenty of soap and water. Do not use solvents. In case of dermatitis get medical attention.  
**Ingestion**  
Symptoms: Strong irritation to the mucous membranes, vomiting diarrhoea, coma.  
Treatment: Drink plenty of water. In case of spontaneous vomiting be sure that vomit can flow freely to avoid suffocation.. Do not induce vomiting. Give nil by mouth if unconscious or convulsing. Get medical attention immediately.
5. **FIRE FIGHTING MEASURES**
  - a) **Suitable Fire Extinguishers:** CO<sub>2</sub>; Dry Chemical; Alcohol Foam; Sand; Earth; Water Mist
  - b) **Extinguishers Not to be Used:** None to our knowledge
  - c) **Exposure hazards/combustion products in a fire:** Keep containers cool by spraying with water
6. **ACCIDENTAL RELEASE MEASURES**
  - a) **Safety Precautions:** Do not breathe vapour. Avoid ignition sources. Avoid contact with skin, eyes and clothing.
  - b) **Environmental Precautions:** Prevent contamination of soil, drains and surface waters.
  - c) **Spillage Clean Up Procedure:** Take up with absorbent, inert material and place in suitable And closable container for disposal..

7. **HANDLING & STORAGE**

a) **Handling:**

Harmful. Ensure good ventilation and good exhaust. Do not eat, drink or smoke at the workplace. Handle with care.

b) **Storage:**

Keep away from food and drink. Store in the original container securely closed and at room temperature. NO SMOKING. Naked flames or other ignition sources must not be present. Shelf life of these products is 12 months in sealed containers.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

a) **Engineering Measures**

Ensure adequate ventilation. Use exposure limits:

Ingredient name	CAS no.	LT EXP (8hrs)
2-Butoxy ethanol	111-76-2	25ppm (MEL)

b) **Personal Protective Equipment**

**Hand Protection:** Gloves of PVC or Choroprenelatex. 0.7mm thick.

**Eye Protection:** Suitable goggles or face protection.

**Skin Protection:** Wear overalls and closed footwear.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Inks in varying colours  
ODOUR: Mild  
FLASH POINT: 67°C  
BOILING POINT: >230°C  
EXPLOSIVE LIMITS: Lower 0.6 Upper 7.0 Autoignition temp: >230°C  
VAPOUR PRESSURE: 1 mbar @ 20°C, 4 mbar @ 40°C  
SPECIFIC DENSITY: 1.2-1.5 @ 25°C  
SOLUBILITY IN WATER: Insoluble  
(% by weight)

10. **STABILITY AND REACTIVITY**

a) **Conditions to avoid:** Avoid heat and sources of ignition.

b) **Material to avoid:** Strong oxidising agents.

c) **Hazardous Decomposition Products:** Combustion may release CO, CO<sub>2</sub>.

11. **TOXOLOGICAL INFORMATION**

Vapour irritating to eyes and respiratory tract may cause narcosis. Liquid is a mild skin and eye irritant. It may cause dermatitis. Liquid may be absorbed through the skin causing systemic effects.

12. **ECOLOGICAL INFORMATION**

No information available.

13. **DISPOSAL**

Spillages should be covered with an absorbent material such as sand or vermiculite. The absorbent material must be disposed of according to local authority instructions. Keep away from drains.

14. **TRANSPORT INFORMATION**

RID/ADR: N/A  
IMDG Code: N/A  
Flash point: 67°C  
UN No: N/A

15. **REGULATIONS**

Symbols: Xn Harmful  
Contains 2-Butoxy ethanol

Risk Phrases: R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

Safety Phrases: R37 Irritating to respiratory system  
S24/25 Avoid contact with skin and eyes  
S23 Do not breath fumes/vapours

16. **OTHER INFORMATION:**

UK. Regulatory References: CHIP REGULATIONS 1994  
None

**LEGAL DISCLAIMER**

The above information is based on our present state of knowledge at the time of publication. It is given in good faith, no warranty is implied with respect to the qualification of the product. The user must satisfy himself that the product is entirely suitable for his purpose

