

## Material Safety Data Sheet

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### Product: ENDOX

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

**Name of Manufacturer:** Becta Laboratories

**Address:** 7105/1, G.I.D.C. Sachin. Surat 394230, Gujarat. India

Customer care number: 0261-2398719

**Generic name:** Activated Glutaraldehyde Solution

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Glutaraldehyde	2.45 % w/v
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#### 3. HAZARDS IDENTIFICATION

**Physical state:** Liquid.

**Appearance:** Unactivated- colorless liquid, Activated,- green liquid.

**Emergency overview:** WARNING

Causes skin, eye and respiratory tract irritation. May cause sensitization by skin contact.

This Concentration is non-hazardous.

**Potential health effects:**

**Routes of exposure:** Inhalation. Ingestion. Skin contact. Eye contact

**Eyes:** Risk of serious damage to eyes.

**Skin:** May cause skin irritation. May cause allergic skin reaction.

**Ingestion:** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Ingestion of this product may cause nausea, vomiting and diarrhoea.

**Inhalation:** Vapour may cause irritation of the upper respiratory tract (nose and throat) and lungs. May cause asthma-like symptoms in sensitive individuals.

**Target organs:** Eye Skin.

**Chronic effects:** Not known.

**Signs of symptoms:** Sensitization. Irritation of eyes and mucous membranes. Skin irritation. Upper respiratory tract irritation.

**Potential environmental effects:** The product is not classified as environmentally hazardous; however, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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#### 4. FIRST AID MEASURES

**First aid procedures:**

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Skin contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists.

**Ingestion:** Immediately rinse mouth and drink plenty of water. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Of person becomes uncomfortable seek medical.

**Inhalation:** Remove victim to fresh air. If breathing is difficult, give oxygen. Get medical attention.

**Notes to physician:** If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the effected person appropriately.

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#### 5. FIRE – FIGHTING MEASURES

**Flammable properties:** Fire or high temperatures create.

**Extinguishing media:**

**Suitable extinguishing media:** Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the surrounding fire.

**Unsuitable extinguish media:** None.

**Hazardous combustion products:** Carbon oxide

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#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid inhalation and contact with skin and eyes.

**Environmental precautions:** Avoid discharge into storm drains, water courses or into the ground.

**Other information:** Clean up in accordance with all applicable regulations.

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#### 7. HANDLING AND STORAGE

**Handling:** Provide adequate ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Use in well-ventilated area and use with appropriate exhaust ventilation.

**Storage:** Store in closed original container at temperature at 15 -30°C (59 - 86°F). Store away from incompatible materials.

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational exposure limits.**

**Glutaraldehyde**                      **0.05 ppm**

**Exposure guidelines:** Use personal protective equipment as required. Keep working clothes separately.

**Engineering controls:** Provide adequate ventilation and minimize the risk of inhalation of vapours and mists. Use in well-ventilated area and use with appropriate exhaust ventilation, for example a minimum of 10 air exchanges per hour or as defined by state and local regulations.

**Personal protective equipment:**

**Eye / face protection:** Wear safety glasses with side shields.

**Skin protection:** Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier. Wear suitable protective clothing.

**Respiratory protection:** In case of risk of inhalation of vapour/aerosols: use high efficiency particulate respirator with appropriate filter.

**General hygiene considerations:** Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Inactivated, colorless liquid; Activated, green liquid.

**Color:** Inactivated, colorless ; Activated, green liquid.

**Odor:** Characteristic aldehyde

**Physical state:** Liquid

**Form:** Liquid

**pH:** 3 -4.6 (unactivated)

8.2 – 9.2 (activated)

**Melting point:** Not available

**Boiling point:** Not available

**Flash point:** Not available

**Specific gravity:** 1.003

**Solubility (water):** Completely Soluble.

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## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal temperature conditions.

**Condition to avoid:** Extremes of temperature, direct sunlight and prolonged heating at temperature above 40° C.

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## 11. TOXICOLOGICAL INFORMATION

**Acute effects:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Local effects:** Causes skin and eye irritation. May cause irritation of respiratory tract.

**Sensitization:** May cause allergic skin reaction.

**Chronic effects:** Not known

**Carcinogenicity:** Not classified.

**Mutagenicity:** No data available.

**Symptoms and target organs:** Sensitizing. Skin irritation. Irritation of eyes and mucous membranes. Upper respiratory tract irritation.

**Further information:** No other specific acute or chronic health impact noted.

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## **12. ECOLOGICAL INFORMATION**

Ecotoxicity

Ecotoxicity effects: This product has no known eco – toxicological effects.

Aquatic toxicity effects: This product has no known aquatic toxicological effects.

Mobility: Unknown on product.

Persistence / degradability: Unknown on product.

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## **13. DISPOSAL CONSIDERATIONS**

Any disposal practice must be in compliance with local, state and federal laws and regulations. Do not dump in sewers, any body of water or on the ground.

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## **14. TRANSPORT INFORMATION**

Not regulated as dangerous goods.

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## **15. REGULATORY INFORMATION**

This product is non-hazardous at this concentration. It may hazardous above concentration 5 %

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## **16. OTHER INFORMATION**

Additional advice: None

Literary Reference: None

Disclaimer:

The information and recommendations contained herein are based upon tests believed to be reliable. However, parameters depend upon actual condition of patient.