

# Bind-ET Replacement Cartridge MSDS

## Material Safety Data Sheet

### 1. Product and Company Identification

**Product Name:** BindET Replacement Cartridge

**Product Number:** 2351

**Synonyms:** Cartridge MSDS No. 10104

#### Supplied by:

abc biopply  
anfass LT AG (Dept.)  
Gewerbstrasse 8  
6330 Cham  
Tel.: 0041 41 747 25 50  
Fax: 0041 41 743 25 36  
www.biopply.com

### 2. Composition/Data on Components

**Description:** Plastic Cartridge containing ion exchange resins.

#### Contains:

- (1) Sulphonated copolymer of styrene and divinylbenzene in the hydrogen form.
- (2) Triethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form.

| Chemical | % Conc | Classification | CAS         |
|----------|--------|----------------|-------------|
| 1        | >20%   | Xi, R36        | 069011-20-7 |
| 2        | >20%   | Xi, R36        | 069011-18-3 |

### 3. Hazards Identification

Irritating to the eyes.

### 4. First Aid Measures

#### Inhalation

No adverse effects anticipated.

#### Skin Contact

None. Wash off in flowing water or shower.

#### Eye Contact

Irritation. Irrigate with flowing water for at least 15 minutes. Remove all particles. Consult medical staff.

#### Ingestion

No adverse effects anticipated.

### 5. Fire Fighting Measures

#### Suitable Extinguishers

Foam, CO<sub>2</sub>, Dry chemical.

#### Hazardous Combustion Products

Monomers, Residual organics, Carbon Oxides, Amines, Nitrogen Oxides and Sulphur Oxides.

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### Special Equipment for Fire Fighting

Wear self-contained breathing apparatus and full protective gear.

## 6. Accidental Release Measures

### Safety Precautions

Floor may be slippery.

### Environmental Precautions

Prevent contamination of surface and ground-water.

### Clean up Procedure

Contain and sweep up. Transfer to containers for recovery/disposal.

## 7. Handling and Storage

### Handling / Ventilation

Normal.

### Prohibited procedures & equipment

None.

### Recommended procedures & equipment

Protective gloves. Safety glasses and eyewash. May cause slippery surfaces.

### Storage

Temperature range 0°C - 50°C. Avoid freezing and dehydration. Allow room for expansion. Static discharge may accumulate on dry beads.

## 8. Exposure Controls/Personal Protection

### Exposure Limits

None established. Normal ventilation sufficient.

### Respiratory

Protection not required.

### Hand/Skin

Protective gloves.

### Eye

Use chemical goggles. Eyewash available.

### Hygiene Measures

No details.

## 9. Physical & Chemical Properties

### Appearance

Spherical Beads – White to dark amber.

### Odour

Slight amine.

### pH

N/A

### Boiling Point/range

N/A

### Melting Point/range

N/A

### Flammability

Autoignition >500°C.

### Oxidizing Properties

None

### Relative Density

1.04 – 1.4

### Solubility in Water

Virtually insoluble.

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### Solubility in Solvent

No Detail.

### 10. Stability & Reactivity

#### Stability

Stable under normal conditions.

#### Conditions to Avoid

Storing above 50°C may result in amine vapour.

#### Materials to Avoid

Nitric Acid and strong oxidisers. Risk of explosion.

#### Hazardous Decomposition Products

Monomers, Residual organics, Carbon Oxides, Amines, Nitrogen Oxides.

### 11. Toxicological Information

#### Effects

Acute toxicity unlikely due to physical properties. Eye irritation by mechanical and chemical action. May cause corneal injury. Effects are likely to heal. Prolonged skin exposure may cause irritation.

**LD 50** >5000 mg/kg if ingested

### 12. Ecological Information

#### Environmental Effects

Stable

#### Mobility

Low

#### Degradability

No biodegradation observed

#### Bioaccumulative

Potential Low

#### Aquatic Toxicity

Low ecotoxicity as not soluble in water but may change local pH of waters.

### 13. Disposal Considerations

#### Substance

Non hazardous – Landfill/controlled incineration.

#### Container

No Details.

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features. abc biopply is not held liable for any damage resulting from handling or from contact with the above products.

MSDS has been prepared on accordance with EU Directive 67/548/EEC, 91/115/EEC and other EU Community legislations in force.

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