

## 1. Identification of the substance/preparation and of the company/undertaking

### Product details

Trade name: **Legionella EIA Colour Developer**

Application of the substance / the preparation: In vitro diagnostic reagent. For professional use only.

### Manufacturer/Supplier:

Manufacturer

Binax, Inc.,  
10 Southgate Road,  
Scarborough,  
Maine 04074, USA.

Supplier

Emergo Europe,  
P.O. Box 18510,  
2502 EM The Hague,  
The Netherlands.

Tel: +1 207-730-5700

Fax: +1 207-730-5710

Tel: (+31) 70 345 8570

Fax: (+31) 70 346 7299

Further information obtainable from: [www.binax.com](http://www.binax.com) or [www.emergogroup.com](http://www.emergogroup.com)

### Information in case of emergency:

Tel: (+31) 70 345 8570

## 2. Composition/information on ingredients

### Chemical characterisation

#### Description:

In vitro diagnostic reagent. Aqueous preparation containing the hazardous components listed below.

### Dangerous components:

Component	CAS No.	EINECS No.	Classification	Concentration
3,3',5,5'- Tetramethylbenzidine	54827-17-7	259-364-6	Xi; R36/37/38	1 - 20 %

### Additional information:

For the wording of the listed risk phrases refer to section 16.

## 3. Hazards identification

### Hazard description:

The preparation is not classified as dangerous according to Directive 99/45/EC.

### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 4. First-aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:**

Wash with soap and water and rinse thoroughly. Remove soiled clothing and clean before re-use.

**After eye contact:**

Rinse opened eye for several minutes under running water. Consult a doctor in case of complaint.

**After ingestion:**

Wash out mouth with water. Consult a doctor in case of complaint.

## 5. Fire-fighting measures

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire-extinguishing methods suitable to surrounding conditions.

**Special hazards caused by the substance, its products of combustion or resulting gases:**

In case of fire, the following can be released: Carbon oxides (CO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), phosphorous oxides (P<sub>x</sub>O<sub>y</sub>), hydrogen chloride gas (HCl), hydrogen bromide gas (HBr).

**Protective equipment:**

Wear full protective suit and self-contained respiratory protective device when extinguishing fires.

## 6. Accidental release measures

**Person-related safety precautions:**

Refer to Section 8 for protective measures when handling the spillage.

**Measures for environmental protection:**

Do not allow to enter sewers/surface or ground water.

**Measures for cleaning/collecting:**

Absorb with liquid-binding material (paper towelling, sand, diatomite, acid binders, universal binders, sawdust)

Dispose of contaminated material as waste according to Section 13.

Rinse off area with water.

## 7. Handling and storage

**Information for safe handling:**

Observe the general safety regulations when handling chemicals.

Avoid contact with the eyes, skin and mucous membranes.

**Storage:**

Store in the original container at 2...8°C.

**Requirements to be met by storerooms and receptacles:**

No special requirements.

## 8. Exposure controls/personal protection

**Ingredients with limit values that require monitoring in the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace.

**Additional information:**

The lists valid during the creation of this MSDS were used as a basis for this assessment.

**General protective and hygienic measures:**

Adhere to good laboratory practices (GLP).

Wash hands before breaks and at the end of work.

**Personal protective equipment:**

**Respiratory protection:** Required.

**Protection of hands:** Disposable gloves.

**Material of gloves:** Latex/natural rubber.

**Penetration time of glove material:** Gloves resistance is not critical when the product is handled according to the instructions for use.

**Eye protection:** Safety glasses recommended.

**Body protection:** Lab coat.

## 9. Physical and chemical properties

### General Information

**Form:** Liquid

**Colour:** Clear very pale amber solution

**Odour:** Odourless

### Change in condition

**Melting point/Melting range:** Similar to water, approximately 0°C.

**Boiling point/Boiling range:** Similar to water, approximately 100°C.

**Flash point:** Not applicable.

**Self-igniting:** Product is not self-igniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Vapour pressure:** Similar to water, approximately 23 hPa.

**Density at 20°C:** approximately 1.0 g/cm<sup>3</sup>

**Solubility in/Miscibility with:**

**Water:** Fully miscible.

## 10. Stability and reactivity

**Stability:** The product is stable in accordance with the recommended storage conditions.

**Materials to be avoided:** Bases, amines, alkali metals, copper, copper alloys.

**Hazardous reactions:** No dangerous reactions known

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11. Toxicological information

### Acute toxicity:

Quantitative data on the toxic effects of this product is not available.

### Primary effects

**After inhalation:** May cause irritation.

**After skin contact:** May cause irritation.

**After eye contact:** May cause irritation.

**After ingestion:** May be harmful if swallowed.

**Sensitization:** No sensitisation effects known

### Additional Information:

The preparation contains tetramethylbenzidine that has been shown to have some mutagenic effects in laboratory experiments.

## 12. Ecological information

### Ecotoxic Effects:

Quantitative data on the toxic effects of this product are not available.

No ecological problems are to be expected when the product is handled and used with due care and attention.

## 13. Disposal considerations

### Product:

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

### European waste catalogue:

18 01 07 chemicals other than those mentioned in 18 01 06.

**Packaging:**

Disposal must be made in accordance with local waste management regulations.

Packaging materials may be recycled. Contact your local service providers for further information.

## 14. Transport information

**Land transport ADR/RID (cross-border):**

Not regulated for transport.

**Maritime transport IMDG:**

Not regulated for transport.

**Marine pollutant:** No

**Air transport ICAO-TI and IATA-DGR:**

Not regulated for transport.

## 15. Regulatory information

**Labelling according to EU guidelines:**

Safety data sheet available for professional user on request.

**Water Hazard Class (Germany):** WGK 3 – very hazardous for water.

## 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Relevant R-phrases:**

R36/37/38 Irritating to eyes respiratory system and skin.

**Prepared by:** Dr. J. J. Tobin, ChemHaz Solutions, Email: [info@chemhazsolutions.com](mailto:info@chemhazsolutions.com)