

**REAGENT B**  
**Part Number: 099-018**

Version 1 – Date of revision : 08-oct-2009

According to EC Regulation No. 1907/2006 (REACH)



**1. Identification of the substance / preparation and of the company**

**Trade name:**

Reagent B

**Part number:**

099-018

**Use of the substance / preparation:**

Reagent for in-vitro diagnostic use (buffer for HPLC)

**Identification of the company / supplier:**

Drew Scientific Inc.

4230 shilling way, Dallas, TX 75237, USA

**Responsible for Safety Data Sheets:**

QA Department:

Tel.: + 1 214 210 4900 Fax: +1 214 210 4949

e-mail: productsusa@drew-scientific.com (USA),

products@drew-scientific.com (Rest of the World)

**Emergency telephone:**

Refer to your local regulations

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**2. Hazards identification**

**Classification**

None

**Information pertaining to special dangers for human and environment**

According to the evaluative data available, a classification according to categories of danger as specified in Directive 67/548/EEC is not required. The concentration of the hazardous ingredients is below the limits of classification. Risks cannot be excluded if the product is handled inappropriately:

Contact with acids liberates a very toxic gas! Buffer salts that crystallized on metal surfaces may contain explosive heavy metal azides (see section 10)!

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### 3. Composition / information on ingredients

#### Chemical characterization (preparation)

Aqueous buffer with < 0.1 % sodium azide as a preservative.

#### Hazardous Ingredients

Substance	EC-No.	REACH-No.	EC-Index-No.	CAS-No.	Amount [%]	Classification / Labelling	
						Symbol	R-Phrases
Sodium azide	247-852-1	-	011-004-00-7	26628-22-8	< 0.1 %	T+	28-32-50/53

#### Substances with exposure limit values (EC)

See section 8.

### 4. First aid measures

#### General Information

Take off contaminated clothing. In case of accident or if you feel unwell, seek medical advice immediately.

#### After inhalation

Fresh air

#### After skin contact

Wash off with plenty of water and soap.

#### After eye contact

Rinse out with plenty of water (with eyelid held wide open for at least 15 min). Call in ophthalmologist.

#### After swallowing

Rinse mouth with water; prevent the victim from drinking water and from vomiting. Seek medical advice immediately.

#### Information to physician

The preparation contains sodium azide (amount < 0.1 mass %)

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**5. Fire-fighting measures**

**Suitable extinguishing media**

In adaption to materials stored in the immediate neighborhood. Product is inflammable.

**Extinguishing media which must not be used for safety reasons**

Not applicable

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

No data available

**Special protective equipment for fire-fighters**

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

**Additional information**

None

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**6. Accidental release measures**

**Personal precautions**

Avoid contact with substance. Ensure supply of fresh air in enclosed rooms.

**Environmental precautions**

Do not allow the substance to enter the drains.

**Methods for cleaning-up**

Take up with liquid-absorbent material (e.g. Chemizorb®). Forward for disposal.

**Additional information**

None

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## 7. Handling and storage

### Advices on safe handling

Prevent any contact with skin, eyes – Wear protective equipment

### Precautions against fire and explosion

Not applicable

### Storage conditions

Keep only in the original container.

### Storage class VCI (Germany)

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## 8. Exposure controls / personal protection

### Exposure limit values

Chemical name	CAS No.	Exposure limit values	
Sodium azide	26628-22-8	TRGS 900, Germany	<i>value:</i> 0.2 mg/m <sup>3</sup> <i>peak value:</i> 2(I)
		EC	<i>value:</i> 0.1 mg/m <sup>3</sup> <i>short term value (&lt; 15 min):</i> 0.3 mg/m <sup>3</sup> <i>Skin resorption:</i> H (Risk of skin absorption)

### Personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

**Respiratory protection:** not required, if the product is used according to the intended purpose

**Hand protection:** Protection gloves recommendable;

**In full contact:** glove material nitrile rubber, layer thickness: 0.11 mm

**Protective clothing:** lab coat

**Eye protection:** safety glasses

### Industrial hygiene

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Avoid contact with eyes and skin. For the safety at work do not eat, drink, smoke, snuff. Wash hands after working with the product.

**Environmental exposure controls**

See sections 6 and 7.

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**9. Physical and chemical properties**

**Appearance**

Physical state: liquid

Color: colorless

Odor: perceptible

**Safety relevant basic data**

pH value (at 20 °C): 6

Boiling point/ boiling range: not known

Flash point: not applicable

Explosion hazard: not applicable

Lower explosion limit: not applicable

Upper explosion limit: not applicable

Ignition temperature: not applicable

Vapour pressure: not known

Density: not known

Solubility in water (@ 20 °C): completely soluble

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**10. Stability and reactivity**

**Conditions to avoid**

The buffer must not be acidified. In contact with acids a very toxic gas is liberated (hydrazoic acid).

In case of a leakage of the HPLC system remove the leaked buffer. Buffer salts that crystallized on metal surfaces may contain explosive heavy metal azides (Pb, Cd, Hg, Ag-azides). Those azides may explode spontaneously by contact, e.g. by the scratching with a screw driver! For removal of buffer salts, at first completely dissolve them with water (e.g. washing bottle) and subsequently absorb the liquid with a paper towel.

**Hazardous decomposition products**

See above

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### 11. Toxicological information

The toxicological classification of the preparation was calculated according to the provisions the directive 1999/45/EC. According to our experiences, further hazards beyond those being specified in the labeling must not be anticipated.

#### **Toxicological examinations**

No data available

#### **Experiences made in practice**

See section 10.

#### **Information on ingredients**

Substance	CAS-No.	LD50 (oral)	LD50 (dermal)	LC50 (inhalation)
Sodium azide	26628-22-8	rat: 27 mg/kg (RTECS)	rabbit: 20 mg/kg (RTECS)	no data available

#### **Properties that must be anticipated on the basis of the components of the preparation (sodium azide)**

**After swallowing:** Irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract

**After skin contact:** Slight irritations. Danger of skin absorption

**After inhalation:** Irritation symptoms in the respiratory tract

**After eye contact:** Slight irritations.

**Systemic effects:** CNS disorders, cardiovascular failure, tachycardia, drop in blood pressure, coughing, dyspnoea, spasms, headache, dizziness, nausea, vomiting, collapse, unconsciousness.

### 12. Ecological information

#### **Ecotoxic effects (ingredients)**

Sodium azide: May cause long-term adverse effects in the aquatic environment.

#### **Mobility, persistence and degradability, bio-accumulative potential (ingredients)**

No data available

#### **Results of PBT assessment**

No data available

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**Other adverse effects**

No data available

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**13. Disposal Considerations**

**Recommendation**

For disposal, laboratory waste should be collected separately with regard to its different chemical properties. Waste of this product can be collected as “aqueous salt solution“.

**Recommended waste code (AVV, Germany):**

16 05 09 Discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

**Product (substance / preparation) / contaminated packaging**

The product must be disposed of in compliance with the respective national regulations. Contaminated packaging must be disposed as the product itself.

**Cleaned packaging**

Non-contaminated and cleaned packaging can be recycled. Recommended cleanser: water

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**14. Transport Information**

Not subject to the regulations for the transport of dangerous goods.

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**15. Regulatory Information**

**Labeling according to EU Regulations**

Hazard symbols: none

Hazard statements: none

R-phrases: none

S-phrases: none

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**16. Other Information**

**Risks:** none

**Users formation:** users must be aware of chemical and biological risks.

**Use restrictions:** the product is dedicated to in-vitro diagnostic analyses.

**Reference :** MSDS of our suppliers.

This MSDS completes the insert sheet of the product. The information above is believed to be accurate and represents the best information currently available to us. It characterizes the product with regard to the appropriate safety precautions and to the described use.

**Alterations to previous version:** none (first version)