



## MATERIAL SAFETY DATA SHEET

Date of Issue: August 11, 2009

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

**Product Name:** Biotinylated Anti-Mouse IgG Reagent  
**Catalog No.:** MKB-2225

#### **Manufacturer/Supplier USA**

Vector Laboratories, Inc  
30 Ingold Road  
Burlingame, CA 94010  
United States  
Tel: (650) 697-3600 Fax: (650) 697-0339  
Email: vector@vectorlabs.com

#### **EU Supplier United Kingdom**

Vector Laboratories Ltd  
3 Accent Park  
Bakewell Road, Orton Southgate  
Peterborough, PE2 6XS, United Kingdom  
Tel: (01733) 237999 Fax: (01733) 237119  
Email: vector@vectorlabs.co.uk

### 2. Hazards identification

Highly Toxic (USA) Very Toxic (EU). Dangerous for the environment. Very toxic by inhalation, in contact with skin and if swallowed. Readily absorbed through skin. Contact with acids liberates very toxic gas. Very toxic to aquatic organism organisms, may cause long-term adverse effects in the aquatic environment.

### 3. Composition/information on ingredients

**Chemical characterization:** Mixture of substance(s) listed below with non-hazardous additions

Substance	CAS#	EC#	% by weight
Sodium azide	26628-22-8	247-852-1	0.08%

**Classification**  
T+-N; R28-32-50/53

### 4. First-aid measures

**Inhalation:** Remove to fresh air. Obtain medical attention.

**Skin contact:** Wash thoroughly with water for at least 15 min. Obtain medical attention.

**Eye contact:** Wash thoroughly with water for at least 15 min. Obtain medical attention.

**Ingestion:** Do not induce vomiting. If person is conscious, wash out mouth with water. Obtain medical attention.

### 5. Fire-fighting measures

**Suitable extinguishing media:** Water, foam, carbon dioxide

**Special protective equipment:** Use respirator. Toxic gases can be evolved.

### 6. Accidental release measures

Wear protective clothing to prevent contact with eyes and skin. Ensure adequate ventilation. Flush to sewer, if allowed or collect on absorbent material and dispose of according to local and regional regulations.

(continued on next page)



## 7. Handling and storage

**Handling:** Use only with adequate ventilation. Wear eye protection and compatible chemical-resistant gloves.

**Storage:** Store in a refrigerator.

## 8. Exposure controls/personal protection

**Engineering methods:** Use enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

**Exposure limit:** TLV 0.29 mg/m<sup>3</sup> from ACGIH. Consult local authorities for acceptable exposure limits.

**Personal protection:**

**Hand protection** Compatible chemical-resistant gloves

**Eye protection** Chemical safety goggles

**Skin protection** Lab coat

## 9. Physical and chemical properties

**Appearance:** Solid

**Odor:** None

**pH:** Not determined

**Boiling point:** Not determined

**Melting point:** Not determined

**Flash point:** Not determined

**Autoflammability:** Not determined

**Vapor pressure:** Not determined

**Relative density:** Not determined

**Solubility:** Not applicable

## 10. Stability and reactivity

**Conditions to avoid:** Acidic pH

**Materials to avoid:** Strong oxidizers

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide, nitrogen oxides.

## 11. Toxicological information

**Acute effects:** May cause skin irritation, eye irritation, mucus membrane irritation. May be fatal if swallowed, inhaled or absorbed through the skin. Exposure can cause nausea, headache and vomiting.

**Chronic effects:** May alter genetic material.

**RTECS#:** VY8050000

**Toxicity data:** orl-hmn TDLo: 710 µg/kg

orl-rat LD50: 27 mg/kg

ivn-mus LD50: 19 mg/kg

skn-rbt LD50: 20 mg/kg

Only selected RTECS data is shown. See actual entry for complete information.



## 12. Ecological information

Data not yet available.

## 13. Disposal considerations

Observe all local or regional regulations.

## 14. Transport information

Data not yet available.

## 15. Regulatory information

### Hazard symbols:

T+ Very toxic

N Dangerous for the environment

### Risk phrases:

R28 Very toxic if swallowed

R32 Contact with acids liberates very toxic gas

R50/53 Very toxic to aquatic organism organisms, may cause long-term adverse effects in the aquatic environment

### Safety phrases:

S28 After contact with skin, wash immediately with plenty of soap-suds

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

## 16. Other information

The information contained in this Material Safety Data is believed to be accurate but it is the responsibility of the user to determine the applicability of these data to the formulation of necessary safety precautions. Vector Laboratories Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this Material Safety Data Sheet.