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## Material Safety Data Sheet

Antibodies  
revised 7/12/2012

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Antibodies  
**Product Catalog Number:** Includes antibodies within the following range of catalog Numbers: bs-0001 to bs-9999  
**Supplier Identification:**

Bioss Inc. USA  
100 TradeCenter,  
Woburn, MA 01801  
Tel: 781-569-5821  
Fax: 781-569-5847

### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Antibodies are from animal source as specified on product PDF datasheet. To properly use BIOSs MSDS, please refer to product PDF datasheet to determine the exact attribute descriptions (ie exact concentrations of preservatives), and then refer to the appropriate safety regulation written below.

**Component:** Antibody  
**Chemical Name:** Sodium Azide  
**% Conc.:** 0.09%  
**CAS#:** 26628-22-8  
**EC#:** 247-852-1  
**Classification (pure ingredient):** T+: R28,R38; N:R50/53

**Component:** Antibody Preservative  
**Chemical Name:** Gentamicin Sulphate  
**% Conc.:** 0.01%  
**CAS#:** 1405-41-0  
**EC#:** 215-778-9  
**Classification (pure ingredient):** R42/43,S45;36/37/39;22

### 3. HAZARDS IDENTIFICATION

#### HAZARD DESCRIPTION

This product contains no hazardous constituents, or the concentrations of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29CFR 1910.1200 and the European Directive 91/155/EEC.

#### CLASSIFICATION SYSTEM

The classification was made according to the latest editions of the international substances lists, and expanded upon from company and literature data.

#### EMERGENCY OVERVIEW

**OSHA Hazards:** No known OSHA hazards  
**GHS Classification:** Acute aquatic toxicity (Category 3)

#### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

**Picogram:** none  
**Signal Word:** none  
**Hazard Statement(s):** H402 Harmful to aquatic life  
**Precautionary Statement(s):** none

#### HMIS CLASSIFICATION

**Health Hazard:** 0  
**Flammability:** 0  
**Physical Hazards:** 0

#### NFPA RATING

**Health Hazard:** 0  
**Fire:** 0  
**Reactivity Hazards:** 0

#### POTENTIAL HEALTH EFFECTS

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.  
**Ingestion:** May be harmful if swallowed.

### 4. FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if needed.  
**Skin Contact:** Wash off with soap and plenty of water. Remove all contaminated personal protective equipment. Seek medical attention if needed.  
**Eyes:** Flush eyes with water as a precaution. Seek medical attention if needed.  
**Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Seek medical attention if needed.

### 5. FIREFIGHTING MEASURES

**Conditions of flammability:** Not flammable or combustible.  
**Suitable extinguishing media:** Use carbon dioxide, extinguishing powder, water spray, or alcohol-resistant foam.  
**Special protective equipment for firefighters:** No special measures required.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Not required.  
**Environmental Precautions:** Do not let product enter drains. Discharge into the environment must be avoided.  
**Methods and materials for containment and cleaning up:** Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### HANDLING

**Information for safe handling:** No special measures are required.  
**Information about protection from explosions and fires:** No special measures are required.

#### STORAGE

**Recommended storage temperature:** -20C or 4C  
**Conditions for safe storage:** Store away from oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The product does not contain any substance with occupational hazard exposure limit values.

**Personal Protective Equipment:** General Protective and Hygienic measures: The usual precautions for handling chemicals should be followed.

**Respiratory protection:** Respiratory protection not required. In case of brief exposure, use a chemical fume hood or a type OV/AG (US) or type AHEK (EU EN 14387) respirator cartridges.

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**Hand Protection:** Handle with chemical resistant gloves. Wash and dry hands.

**Eye Protection:** Use safety glasses tested and approved under appropriate government standards.

**Skin and body protection:** Protective work clothing (lab coat).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form: liquid or lyophilized

Color: colorless

Odor: odorless

Melting point: undetermined

Boiling point: undetermined

Flash point: undetermined

Auto ignition point: product is not self-igniting

Danger of explosion: product does not present an explosion hazard

Vapor Pressure: not applicable

Density: undetermined

Solubility in Water: soluble

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under recommended storage conditions

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** Freeze thaw cycles

**Materials to Avoid:** Strong oxidizers

**Dangerous products of Decomposition:** No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Primary irritant effect

**Skin:** No irritating effect

**Eye:** No irritating effect

**Additional toxicological information:** The product is not subject to OSHA classification according to internally approved calculation methods for preparations. When used and handled according to specifications, this product does not have any harmful effects according to our experience and the information provided to us.

## 12. ECOLOGICAL INFORMATION

**Ecotoxic effects:** The ecological effects have been thoroughly investigated, but currently none have been identified.

**General Notes:** Harmful to aquatic life

## 13. DISPOSAL CONSIDERATIONS

**Recommendation:** Must adhere to state and federal regulations. Smaller quantities can be disposed of with solid waste. Disposal must be made according to the regulations found in 40 CFR 261. This product is not considered a RCRA hazardous waste.

**Contaminated Packaging:** Disposal must be made according to state and federal regulations.

## 14. TRANSPORT INFORMATION

DOT REGULATIONS

Hazard Class: Non-hazardous for transport

LAND TRANSPORT

ADR/RID Class: Non-hazardous for transport

MARITIME TRANSPORT

IMDG Class: Non-hazardous for transport

AIR TRANSPORT

ICAO/IATA Class: Non-hazardous for air transport

## 15. REGULATORY INFORMATION

**OSHA Hazards:** Not known OSHA hazard

**SARA Section 355 (extremely hazardous):** None of the ingredients listed

**SARA Section 313 (specific toxic chemical listings):** None of the ingredients listed

**TSCA (Toxic Substances Control Act):** 26628-22-8 Sodium Azide

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

Sodium Azide CAS-No. 26628-22-8 Revision Date 2007-07-01

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

Sodium Azide CAS-No. 26628-22-8 Revision Date 2007-07-01

NEW JERSEY RIGHT TO KNOW COMPONENTS

Water CAS-No. 7732-18-5

CALIFORNIA PROPOSITION 65 COMPONENTS

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 16. OTHER INFORMATION

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user.