Section 1 - Product and Company Information

Product Name: Anti-Rabbit IgG (whole molecule)-Alkaline Phosphatase antibody produced in goat, affinity isolated antibody
Product Number: A9667
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3000 Spruce Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 603-329-5522
Fax: 603-329-5052
Emergency Phone: 314-776-0055

Section 2 - Composition/Information on Ingredient

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>CAS #</th>
<th>SARA 313</th>
<th>EC no.</th>
<th>Annex Index Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Affinity isolated antigen specific antibody, Alkaline Phosphatase Conjugate</td>
<td>None</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>Percent</th>
<th>SARA 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRIS BUFFERED SALINE, PH 6.0</td>
<td>None</td>
<td>0.005 %</td>
<td>No</td>
</tr>
<tr>
<td>BOVINE SERUM ALBUMIN</td>
<td>9006-46-8</td>
<td>1.00%</td>
<td>No</td>
</tr>
<tr>
<td>MAGNESIUM CHLORIDE ANHYDROUS</td>
<td>7786-30-5</td>
<td>0.00%</td>
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<tr>
<td>GLYCINE</td>
<td>56-40-6</td>
<td>0.07%</td>
<td>No</td>
</tr>
<tr>
<td>GLYCEROL</td>
<td>56-81-5</td>
<td>50.00%</td>
<td>No</td>
</tr>
<tr>
<td>SODIUM AZIDE</td>
<td>25029-22-8</td>
<td>&lt; 0.10%</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview:
Caution: Avoid contact and inhalation. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Target organ(s): Kidneys.

HMIS Rating
Health: 1
Flammability: 0
Reactivity: 1

NFPA Rating
Health: 1
Flammability: 0
Reactivity: 1

*additional chronic hazards present
For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure
In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Explosion Hazards
Azide reacts with many heavy metals such as lead, copper, mercury, silver, gold to form explosive compounds. Copper and lead azides are more sensitive than nitroglycerine. Azide reacts with metal halides to give a range of metal azide halides, many of which are explosive. Incompatible with chromyl chloride, hydrazine, bromine, carbon disulfide, dimethyl sulfoxide, dibromomalonitrite.

Autoignition Temp: N/A

Extinguishing Media
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting
Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)
Exits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
User Exposure
Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage
Suitable
Keep tightly closed. Store at 2-8°C.

Section 8 - Exposure Controls / PPE

Engineering Controls
Safely shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand
Compatible chemical-resistant gloves.

Eye
Chemical safety goggles.

Skin-Specific
Chemical resistant apron.

General Hygiene Measures
Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Appearance
Liquid

Physical State
Liquid

Molecular Weight
NA

pH
NA

BP/DP Range
NA

BP/DP Range
NA

Freezing Point
NA

Vapor Pressure
NA

Vapor Density
NA

Saturated Vapor Conc.
NA

SG/Density
NA

Bulk Density
NA

Odor Threshold
NA

Volatile's
NA

VOC Content
NA

Water Content
NA

Solvent Content
NA

Evaporation Rate
NA

Viscosity
NA

Partition Coefficient
NA

Decomposition Temp.
NA

Flash Point °F
NA

Flash Point °C
NA

Explosion Limits
NA

Flammability
NA

Autoignition Temp
NA

Solubility
NA

N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable

Materials to Avoid
Dimethyl sulfate is incompatible with sodium acid. Acid chlorides, Halogenated solvents. Avoid contact with metals. Avoid contact with acid. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.

Hazardous Decomposition Products

Hazardous Decomposition Products
Nature of decomposition products not known

Hazardous Polymerization

Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact
May cause skin irritation.

Eye Contact
May cause eye irritation.

Inhalation
May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion
May be harmful if swallowed.

Target Organ(s) or System(s)
Kidneys.

Signs and Symptoms of Exposure

Many azides cause a fall in blood pressure and some inhibit enzyme action. Laboratory experiments in animals have shown sodium azides to produce a profound hypotensive effect, demyelination of myelinated nerve fibers in the central nervous system, testicular damage, blindness, attacks of rigidity, and hepatic and cerebral effects. Prolonged exposure can cause nausea, headache, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None

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Sigma Chemical - A3687 Sigma-Aldrich Corporation www.sigmachem.com

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**Non-Hazardous for Transport** This substance is considered to be non-hazardous for transport.

**IATA**

Non-Hazardous for Air Transport: Non-hazardous for air transport.

### Section 15 - Regulatory Information

#### US Classification and Label Text

**US Statements**

Caution: Avoid contact and inhalation. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Target organ(s): Kidneys.

**United States Regulatory Information**

SARA Listed: No

**Canada Regulatory Information**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

### Section 16 - Other Information

**Disclaimer**

For R&D use only. Not for drug, household or other uses.

**Warranty**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright © 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.