



## ANTIBODIES

### MATERIAL SAFETY DATA SHEET (MSDS)

<b>1. Product Identification</b>	<b>Synonyms:</b> None <b>CAS No.:</b> Not applicable to mixtures. <b>Molecular Weight:</b> Not applicable to mixtures. <b>Chemical Formula:</b> Not applicable to mixtures. <b>Product Codes:</b> 200000 series																																
<b>2. Ingredients</b>	<table border="1"><thead><tr><th>Ingredient</th><th>CAS No</th><th>Conc.</th><th>Hazardous</th></tr></thead><tbody><tr><td>Potassium Phosphate Monobasic</td><td>7778-77-0</td><td>1.8 mM</td><td>No</td></tr><tr><td>Sodium Phosphate, Dibasic</td><td>7558-79-4</td><td>10 mM</td><td>No</td></tr><tr><td>Potassium Chloride</td><td>7447-40-7</td><td>2.7 mM</td><td>No</td></tr><tr><td>Sodium Chloride</td><td>7647-14-5</td><td>150 mM</td><td>No</td></tr><tr><td>Sodium Azide</td><td>26628-22-8</td><td>0.09%</td><td>Yes</td></tr><tr><td>Protein (antibody)</td><td></td><td>0.25 mg/ml</td><td>No</td></tr><tr><td>Water</td><td>7732-18-5</td><td>&gt; 97%</td><td>No</td></tr></tbody></table>	Ingredient	CAS No	Conc.	Hazardous	Potassium Phosphate Monobasic	7778-77-0	1.8 mM	No	Sodium Phosphate, Dibasic	7558-79-4	10 mM	No	Potassium Chloride	7447-40-7	2.7 mM	No	Sodium Chloride	7647-14-5	150 mM	No	Sodium Azide	26628-22-8	0.09%	Yes	Protein (antibody)		0.25 mg/ml	No	Water	7732-18-5	> 97%	No
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<b>3. Physical and Chemical Properties</b>	<b>Appearance:</b> Clear, colorless liquid. <b>Odor:</b> No information found. <b>Solubility:</b> Complete (100%) <b>Specific Gravity:</b> No information found. <b>pH:</b> 7.4 <b>% Volatiles by volume @ 21C (70F):</b> ca. 97 <b>Boiling Point:</b> No information found. <b>Melting Point:</b> No information found. <b>Vapor Density (Air=1):</b> Not applicable. <b>Vapor Pressure (mm Hg):</b> Not applicable. <b>Evaporation Rate (BuAc=1):</b> No information found.																																
<b>4. Fire Fighting Measures</b>	<b>Fire:</b> Not considered to be a fire hazard. <b>Explosion:</b> Not considered to be an explosion hazard. <b>Fire Extinguishing Media:</b> Use any means suitable for extinguishing surrounding fire. <b>Special Information:</b> In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.																																
<b>5. Hazard Identification</b>	<b>Product contains sodium azide. Hazards for manipulating sodium azide (CAS #26628-22-8) are described below:</b>  <b>Ratings</b> Health Rating: 2 - Moderate Flammability Rating: 0 - None Reactivity Rating: 1 - Slight Contact Rating: 2 - Moderate Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES Storage Color Code: Orange (General Storage)  <b>Potential Health Effects</b> <b>Inhalation:</b> Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Inhalation of concentrated vapors may cause headache, dizziness, and drowsiness. <b>Ingestion:</b> Sodium azide is highly toxic, affecting the central nervous system, kidneys and cardiovascular system. Dilute solutions are expected to be less toxic. Symptoms may include headache, nausea, vomiting, dizziness and gastrointestinal irritation. <b>Skin Contact:</b> Causes irritation to skin. Symptoms include redness, itching, and pain. May be																																



	<p>absorbed through the skin with possible systemic effects. <b>Eye Contact:</b> Causes irritation, redness, pain, and blurred vision. <b>Chronic Exposure:</b> No information found. <b>Aggravation of Pre-existing Conditions:</b> No information found.</p> <p><b>Toxicology</b> 27 mg/kg oral rat LD50; 20 mg/kg skin rabbit LD50; investigated as a tumorigen and mutagen.</p>
<b>6. First Aid Measures</b>	<p><b>Product contains sodium azide. First aid measures for sodium azide (CAS #26628-22-8) are described below:</b></p> <p><b>Inhalation:</b> Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</p> <p><b>Ingestion:</b> Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.</p> <p><b>Skin Contact:</b> Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.</p> <p><b>Eye Contact:</b> Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.</p> <p><b>Note to Physician:</b> Accidental ingestion of sodium azide is potentially life threatening. Treatment includes gastric lavage, followed by saline catharsis. EKG and blood pressure monitoring and support are recommended.</p>
<b>7. Accidental Release Measures</b>	<p><b>Spill or release:</b> wear lab coat, chemical resistant gloves and safety glasses. Wipe up spill with a suitable absorbant and dispose of properly. Wash down the spill site.</p> <p><b>Waste disposal method:</b> Dispose of in accordance with all federal, state and local regulations.</p>
<b>8. Handling and Storage</b>	<p><b>Respiratory protection:</b> Not required. Use mechanical exhaust.</p> <p><b>Ventilation:</b> Use mechanical exhaust.</p> <p><b>Protective equipment:</b> Good laboratory practices should always be used. Wear suitable protective clothing, chemical resistant gloves and lab safety glasses.</p> <p><b>Storage:</b> Keep in a tightly closed container. Protect against physical damage. CAUTION: Product contains Sodium Azide as a preservative. Do not allow product to evaporate to dryness. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.</p>
<b>9. Stability and Reactivity</b>	<p><b>Stability:</b> Stable under ordinary conditions of use and storage.</p> <p><b>Hazardous Decomposition Products:</b> Hydrazoic acid fumes (explosion hazard), and oxides of phosphorus, sodium and nitrogen.</p> <p><b>Hazardous Polymerization:</b> Will not occur.</p> <p><b>Incompatibilities:</b> Strong acids and strong oxidizers. For Sodium Azide: Benzoyl chloride + potassium hydroxide, bromine, carbon disulfide, chromyl chloride, copper, dibromalnonitrile, dimethyl sulfate, lead, barium carbonate, sulfuric acid, water, and nitric acid.</p> <p><b>Conditions to Avoid:</b> Heat, incompatibles.</p>
<b>10. Special Precautions</b>	<p>This compound is sold only for research use by personnel familiar with the toxicology of organic chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory.</p> <p>This compound is sold only in milligram quantities for use in diluted solutions in biological research. No other use is intended, and any other use may involve substantial hazards.</p> <p>The above information is believed to be correct but does not purport to be inclusive and shall be used only as a guide for experienced personnel. Abbiotec, LLC shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.</p>

MSDS Antibodies  
(Revised 02-02-10)