

## Safety Data Sheet

### Section 1: Product & Company Identification

<b>Product Name:</b>	$\beta$ -N-Acetylglucosaminidase from <i>Streptococcus pneumoniae</i>
<b>Product #:</b>	B-3300
<b>Synonyms:</b>	-
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

### Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
$\beta$ -N-Acetylglucosaminidase	9012-33-3	232-730-2	

### Section 3: Hazards Identification

<b>Symbols</b>	N/A
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#### HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard

#### NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard

### Section 4: First Aid Measures

<b>General Overview:</b>	For personal protection, see Section 8.
<b>Inhalation:</b>	Fresh air.
<b>Skin:</b>	Immediately take off all contaminated clothing. Rinse skin with water/shower.
<b>Eyes:</b>	Rinse opened eyes with plenty of water. Remove contact lenses.
<b>Ingestion:</b>	Make victim drink water (two glasses at most). Consult a doctor if feeling unwell.

See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	No data available
<b>Extinguishing Media:</b>	For this substance/mixture no limitations of extinguishing agents are given.
<b>Hazardous thermal (de)composition products:</b>	Carbon oxides
<b>Special Fire Fighting Procedures:</b>	Prevent fire extinguishing water from contaminating surface water or the ground water system. In the event of fire, wear self-contained breathing apparatus.
<b>Flash Point:</b>	N/A


## Section 6: Accidental Release Measures



<b>Personal Precautions:</b>	Do not breathe vapors or aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection, see Section 8.
<b>Environmental Precautions:</b>	Do not let product enter drains.
<b>Methods for Clean-up:</b>	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see Sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

## SECTION 7: Handling & Storage

<b>Storage:</b>	Keep container tightly closed. Recommended storage temperature: 2-8°C Storage class: 10
<b>Handling:</b>	No special measures required.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	 <p>Not required; except in case of aerosol formation.</p>
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<b>Skin and Body:</b>	  <p>Protective gloves and lab coat.</p>
<b>Eyes:</b>	 <p>Safety glasses.</p>
<b>Ventilation/Engineering Measures:</b>	Ensure adequate ventilation.
<b>Hygiene:</b>	Follow standard good industrial hygiene practices.
<b>Other:</b>	Contains no substances with occupational exposure limit values.

## SECTION 9: Physical and Chemical Properties

<b>Appearance &amp; Odor:</b>	Aqueous solution
<b>Formula</b>	N/A
<b>Molecular Wt.</b>	N/A
<b>Melting Pt.</b>	No data available
<b>Boiling Pt.</b>	No data available
<b>Density:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Solubility:</b>	No data available
<b>Flash Point:</b>	No data available
<b>Autoignition Temp:</b>	No data available

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous decomposition products:</b>	No data available

<b>Materials to Avoid:</b>	Violent reactions possible with: The generally known reaction partners of water.
<b>Conditions to avoid:</b>	No data available

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	N/A
<b>ACUTE Toxicity:</b>	N/A
<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	No data available
<b>Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	No data available

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste.
<b>Contaminated Packaging:</b>	Handle uncleaned containers like the product itself.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	N/A
<b>ADR / RID (LAND):</b>	Not regulated
<b>DOT regulations:</b>	Not regulated
<b>IMDG/IMO (SEA):</b>	Not regulated
<b>IATA/DGR (AIR):</b>	Not regulated
<b>Special Provisions:</b>	N/A

## SECTION 15: Regulatory Information

<b>Health Phrases:</b>	Not hazardous
<b>Risk Phrases:</b>	N/A
<b>Safety Phrases:</b>	N/A
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	<p>TSCA: Not listed California Proposition 65: No products were found</p> <p>New Jersey State Right to Know: Water (CAS 7732-18-5) Pennsylvania State Right to Know: Water (CAS 7732-18-5)</p>
<b>U.S. Federal Regulations:</b>	<p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found.</p> <p>SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p> <p>OSHA: N/A</p>
<b>WHMIS (Canada):</b>	N/A

## SECTION 16: Other Information

**LIABILITY STATEMENT:** *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*