

## Material Safety Data Sheet



# Bacterial Amylase

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**Carolina Biological Supply Company**

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**CAROLINA**

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### Section 1 - Product Description

**Product Name:** Bacterial Amylase

**Product Code(s):** 20-2275, 20-2300, 20-2335, 20-2360

**Size:** Various

**Chemical Name:** alpha-1,4-glucan 4-glucanohydrolase

**CAS Number:** 9000-90-2

**Formula:** N/A

**Synonyms:** Various trade names (e.g. BAM 240, BAN 120L)

**Distributor:** Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 - Hazard Identification

**Emergency Overview:** N/A

**Potential Health Effects:**

**Eyes:** May cause irritation.

**Skin:** May cause irritation to skin.

**Ingestion:** May cause gastrointestinal discomfort.

**Inhalation:** May cause irritation to respiratory tract.

### Section 3 - Composition / Information on Ingredients

**Principal Hazardous Components:** alpha Amylase concentrate

**TLV units:** N/A

**PEL units:** N/A

### Section 4 - First Aid Measures

**Emergency and First Aid Procedures:**

**Eyes** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, wash immediately with plenty of water.

**Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious).

**Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

### Section 5 - Firefighting Procedures

**Flash Point (Method Used):** N/A

**NFPA Rating:**

**Health:** 1

**Fire:** 1

**Reactivity:** 0

**Extinguisher Media:** Use dry chemical, CO2 or appropriate foam.

**Flammable Limits in Air % by Volume:** N/A

**Autoignition Temperature:** N/A

**Special Firefighting Procedures:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** N/A

## Section 6 - Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## Section 7 - Special Precautions

**Precautions to Take in Handling or Storing:** Use only in well-ventilated areas. Keep container tightly closed in a cool, well-ventilated place.

## Section 8 - Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:**

**Local Exhaust:** Yes

**Mechanical(General):** Yes

**Special:** No

**Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.

**Eye Protection:** Splash proof chemical safety goggles should be worn.

**Other Protective Clothing or Equipment:** Lab coat, apron, eye wash, safety shower.

## Section 9 - Physical Data

**Molecular Weight:** Approximately 45,000 Daltons

**Melting Point:** N/A

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density(Air=1):** >1

**Specific Gravity (H2O=1):** >1

**Percent Volatile by Volume:** N/A

**Evaporation Rate (BuAc=1):** N/A

**Solubility in Water:** Soluble

**Appearance and Odor:** Clear to brown liquid.

## Section 10 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Avoid Dusting. May become explosive when dispersed in air.

**Incompatibility (Materials to Avoid):** N/A

**Hazardous Decomposition Products:** N/A

**Hazardous Polymerization:** Will not occur

## Section 11 - Toxicity Data

**Toxicity Data:** orl-rat LD50 7500 mg/kg

**Effects of Overexposure:**

**Acute:** See Section 2

**Chronic:** To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

**Conditions Aggravated by Overexposure:** Respiratory disorders,

**Target Organs:** Respiratory system,  
**Primary Route(s) of Entry:** Inhalation and ingestion.

## Section 12 - Ecological Data

**EPA Waste Numbers:** N/A

## Section 13 - Disposal Information

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## Section 14 - Transport Information

**DOT Proper Shipping Name:** N/A

## Section 15 - Regulatory Information

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** Acute

**Name List:**

Alpha Amylase - No

**Chemical Category:**

Alpha Amylase - No

**CERCLA Section 103 RQ(lb.):** Alpha Amylase - No

**RCRA Section 261.33:** Alpha Amylase - No

## Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

**Glossary**

|            |   |
|------------|---|
| ACGIH      | American Conference of Governmental Industrial Hygienists             |
| CAS Number | Chemical Services Abstract Number                                     |
| CERCLA     | Comprehensive Environmental Response, Compensation, and Liability Act |
| DOT        | U.S. Department of Transportation                                     |
| IARC       | International Agency of Research on Cancer                            |
| N/A        | Not Available   |
| NTP        | National Toxicology Program   |
| OSHA       | Occupational Safety and Health Administration                         |
| PEL        | Permissible Exposure Limit  |
| ppm        | Parts per million   |
| RCRA       | Resource Conservation and Recovery Act                                |
| SARA       | Superfund Amendments and Reauthorization Act                          |
| TLV        | Threshold Limit Value   |
| TSCA       | Toxic Substances Control Act  |