

PFALTZ & BAUER, INC.
172 EAST AURORA STREET
WATERBURY, CT 06708
203 574-0075

OCT 22 1996

CATALOG #A30960

FAX 203 574-3181

CHEMTREC 1 800 424-9300
MATERIAL SAFETY DATA SHEET

Product: a-AMYLACE(B-SUBTILIS)

Synonym: Not Available

Catalog Number: 100447, 104838, 150375, 160058, 190151, 190152, 201033, 207091

Chemical Formula: Not Available

Physical Description: White to Off-White Powder

Melting Point: Not Available

Boiling Point: Not Available

Specific Gravity: Not Available

Vapor Pressure: Not Available

Solubility in Water: Soluble

TLV of the Substance: Not Available

PEL of the Substance: Not available

Storage: +4°C

Remarks CAS # 9000-90-2 (α)
9000-91-3 (β)

CAS # Above
WHMIS # NC

RTECS # BU7435000 (β)

UN # Not Available

Dangerous Reactions

Flammability: No Unusual Hazard

Flash Point (method): Not Available

Minimum Ignition Temperature: Not Available

Risk of explosion? No Unusual Hazard

Decomposition of the substance when heated or burned: YES,
Acrid smoke and irritating fumes

Any Dangerous Reactions? Strong oxidizing agents

Extinguishing Media: CO₂, dry chemical, or foam

Toxicological Data

Route(s) of Entry:

Inhalation: YES

Skin: YES

Ingestion: YES

Health Hazards - Acute and Chronic: Can cause irritation of mucous membranes. Sensitizer.

Signs and Symptoms of Exposure: Unknown. May include moderate to severe erythema (redness) and moderate edema (raised skin).

Safe Handling and Safe Use of Materials

Spill or Release of Material

- ☐ Absorb the liquid in dry sand, diatomite, vermiculite or other drying agent then shovel into suitable containers for disposal.
- ☐ Acid Spills - Depending upon the situation neutralize with soda ash then use one of the following methods; soak up in an absorbent then shovel into suitable container for disposal, or flush away with a liberal amount of water.
- ☐ Alkaline Spills - Depending upon the situation neutralize with NaHSO_4 and then use one of the following methods; soak up in an absorbent then shovel into suitable container for disposal, or flush away with a liberal amount of water.
- ☒ Other procedures: Sweep into suitable container for disposal.

Waste Disposal Method:

Incinerate or landfill as complies with state and local laws.

Handling

Always wear gloves, mask, goggles or other protective clothing and use a hood.
Follow proper laboratory procedures.

Personal Protection

Respiratory Protection: YES

Eye Protection: YES

Protective Gloves: YES

Is a local exhaust system required when the substance is used for its normal purpose? YES

First Aid Procedures

Substance in Contact with Skin

- ☒ Remove contaminated clothing and rinse with copious amounts of soap and water for a considerable amount of time
- ☐ Produces severe caustic burns or general disorders, call a physician
- ☐ Call a physician
- ☒ Not Hazardous

Substance has been Swallowed

- ☐ Rinse mouth several times with water, do not swallow
- ☒ Drink 1 or 2 glasses of water within 15 minutes
- ☒ Induce vomiting
- ☐ In the case of imminent unconsciousness clear the respiratory tract and lay patient on side in a stable position
- ☐ Always Call a physician or take patient to hospital
- ☒ Not Hazardous

Substance in Contact with Eyes

- ☒ Rinse liberally with water for a considerable amount of time
- ☐ Always call a physician or take to a hospital
- ☒ Not Hazardous

Substance has been Inhaled

- ☒ Take patient into the fresh air and allow to rest
- ☐ In the case of imminent unconsciousness clear the respiratory tract and lay patient on side in a stable position
- ☐ Always Call a physician or take patient to hospital

Additional Instructions:

Observe proper laboratory procedures when handling material.

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CERTIFICATE OF ANALYSIS

CHEMICAL NAME: α -AMYLASE (B. SUBTILIS)

CATALOG #: A30960

LOT #: 45626

ACTIVITY: 316,000 BA units/gm

SALMONELLA: NEGATIVE

COLIFORM: NEGATIVE

THIS MATERIAL IS STABLE FOR AT LEAST ONE YEAR.
UNIT DEFINITION: ONE BACTERIAL AMYLASE UNIT
IS DEFINED AS THAT QUANTITY OF THE ENZYME THAT
WILL DEXTRINIZE ONE MILLIGRAM OF STARCH PER
MINUTE AT pH 6.6 AND 30°C UNDER THE SPECIFIED
EXPERIMENTAL CONDITIONS.

PURITY: 95%

APPEARANCE: FINE TAN POWDER

STORAGE RECOMMENDATIONS: +4°C, DESICCATED