MSDS Number: **P0082** * * * * * *Effective Date:* ***06/19/07*** * * * * * *Supercedes:* ***05/07/07***

MSDS Material Safety Data Sheet

24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. And Canada
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

From: Mallinckrodt Baker, Inc.
222 Red School Lane
Phillipsburg, NJ 08865

J.T.Baker®

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.

Pancreatin

1. Product Identification

Synonyms: Diastase vera; Pandrotanon; Zypanar
CAS No.: 8049-47-6
Molecular Weight: Not applicable.
Chemical Formula: Not applicable.
Product Codes: 2840

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Pancreatin	8049-47-6	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

CAUTION! IRRITANT. CAUSES IRRITATION TO EYES, RESPIRATORY SYSTEM AND SKIN. HANDLE WITH CARE, GENERALLY IN KEEPING WITH SAFE LABORATORY PRACTICES IS RECOMMENDED.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life)
Flammability Rating: 0 - None
Reactivity Rating: 0 - None
Contact Rating: 2 - Moderate
Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES
Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:
Irritation of mucous membranes and upper respiratory tract.
Ingestion:
Allergic reaction may develop.
Skin Contact:
Irritation.
Eye Contact:
Irritation.
Chronic Exposure:
Prolonged exposure may cause skin irritation. allergic reaction may develop, May cause dermatitis.
Aggravation of Pre-existing Conditions:
Persons with pre-existing skin disorders or eye dermatitis. asthma.

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4. First Aid Measures

Inhalation:
If a person breathes in large amounts, move the exposed person to fresh air.
Ingestion:
If large amounts were swallowed, give water to drink and get medical advice.
Skin Contact:
In case of contact, immediately wash skin with plenty of soap and water for at

least 15 minutes.
Eye Contact:
In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

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5. Fire Fighting Measures

Fire:
Not expected to be a fire hazard.
Explosion:
None identified.
Fire Extinguishing Media:
Use extinguishing media appropriate for surrounding fire.
Special Information:
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

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6. Accidental Release Measures

Clean-up personnel may require respiratory protection from dust. Vacuuming or wet sweeping may be used to avoid dust dispersal. Flush area with water. Prevent run-off from entering drains, sewers, or streams.

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7. Handling and Storage

Keep container tightly closed. Store in a cool, dry, well-ventilated area. Do not expose to heat. Refrigeration is recommended for extended storage periods. Avoid creating dust. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

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8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
None established.
Ventilation System:
In general, dilution ventilation is a satisfactory health hazard control for this

substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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9. Physical and Chemical Properties

Appearance:
Off-white Powder.
Odor:
Characteristic odor.
Solubility:
Slight (0.1-1%)
Specific Gravity:
No information found.
pH:
No information found.
% Volatiles by volume @ 21C (70F):
0
Boiling Point:
No information found.
Melting Point:
No information found.
Vapor Density (Air=1):
Not applicable.
Vapor Pressure (mm Hg):
Not applicable.
Evaporation Rate (BuAc=1):
No information found.

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10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Acids, oxidizers.
Conditions to Avoid:
Heat.

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11. Toxicological Information

```
  --------\Cancer Lists\-----------------------------------------------------
-
                                          ---NTP Carcinogen---
  Ingredient                              Known    Anticipated    IARC
Category
  -------------------------------------   -----    -----------    ------------
-
  Pancreatin (8049-47-6)                   No          No            None
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12. Ecological Information

Environmental Fate:
No information found.
Environmental Toxicity:
No information found.

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13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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14. Transport Information

Not regulated.

15. Regulatory Information

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  --------\Chemical Inventory Status - Part 1\-------------------------------
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  Ingredient                                        TSCA  EC   Japan
Australia
  ----------------------------------------------  ----  ---  -----  --------
-
  Pancreatin (8049-47-6)                            Yes  Yes   No       Yes

  --------\Chemical Inventory Status - Part 2\-------------------------------
--
                                                           --Canada--
  Ingredient                                        Korea  DSL   NDSL  Phil.
  ----------------------------------------------  -----  ---   ----  -----
  Pancreatin (8049-47-6)                            Yes   No    No     Yes

  --------\Federal, State & International Regulations - Part 1\--------------
--
                                              -SARA 302-    ------SARA 313----
--
  Ingredient                                  RQ    TPQ     List  Chemical
Catg.
  ----------------------------------------  ---   -----   ----  ------------
--
  Pancreatin (8049-47-6)                      No    No      No         No

  --------\Federal, State & International Regulations - Part 2\--------------
--
                                                          -RCRA-    -TSCA-
  Ingredient                                  CERCLA     261.33     8(d)
  ----------------------------------------  ------     ------    ------
  Pancreatin (8049-47-6)                      No         No         No


Chemical Weapons Convention:  No     TSCA 12(b):  No     CDTA:  No
SARA 311/312:  Acute: No       Chronic: No   Fire: No  Pressure: No
Reactivity: No          (Pure / Solid)
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Australian Hazchem Code: None allocated.
Poison Schedule: None allocated.
WHMIS:
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: **1** Flammability: **1** Reactivity: **0**

Label Hazard Warning:

CAUTION! IRRITANT. CAUSES IRRITATION TO EYES, RESPIRATORY SYSTEM AND SKIN. HANDLE WITH CARE, GENERALLY IN KEEPING WITH SAFE LABORATORY PRACTICES IS RECOMMENDED.

Label Precautions:

During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.

Label First Aid:

If a person breathes in large amounts, move the exposed person to fresh air. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.

Product Use:

Laboratory Reagent.

Revision Information:

MSDS Section(s) changed since last revision of document include: 3.

Disclaimer:

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