

Safety Data Sheet

Diastase

Section 1 - Chemical Product and Company Identification

SDS Name: Diastase

Catalog Numbers: SO-322, E-340-1

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H315-Skin corrosion/irritation: 2

H317-Sensitisation, skin: 1B

H319-Serious eye damage/eye irritation: 2A

H334-Sensitisation, respiratory: 1B

Consists of ingredients of unknown acute dermal and inhalation toxicity.
80-93% of the mixture consists of ingredients of unknown acute oral toxicity.

Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

Hazard Statements:

H315-Causes skin irritation

H317-May cause an allergic skin reaction

H319-Causes serious eye irritation

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements:

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.

P272-Contaminated work clothing should not be allowed out of the workplace.

P280-Wear protective gloves/eye protection/face protection.

P284-In case of inadequate ventilation wear respiratory protection.

P302+P352-If on skin: Wash with plenty of soap and water.

P304+P340-If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313-If skin irritation occurs: Get medical advice/attention.

P333+P313-If skin irritation or rash occurs: Get medical advice/attention.

P337+P313-If eye irritation persists: Get medical advice/attention.

P342+P311-If experiencing respiratory symptoms: Call a Poison Center/doctor.

P362+P364-Take off contaminated clothing and wash it before reuse.

P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
8049-47-6	Pancreatin	7-20% by weight
64044-51-5	Lactose	80-93% by weight

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Monitor for an allergic reaction. Remove contaminated clothing and shoes. Seek medical attention.

Oral Exposure: If swallowed, seek immediate medical advice. Rinse mouth and throat thoroughly with water.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Monitor for an allergic reaction.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

Hazardous Combustion Products: Unknown. Potentially hazardous fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Avoid dust formation and accumulation.

Methods for Cleaning up: Carefully sweep up and containerize for proper disposal. Spilled material should be removed immediately to avoid generating dusty conditions. Vacuum or gently moisten with water and collect into a sealable container for disposal. Provide adequate ventilation. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Wash thoroughly after handling. Ensure adequate ventilation. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Minimize dust formation and accumulation. Keep in a tightly closed container. **Store in the freezer.** Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Pancreatin CAS#8049-47-6	Not listed	Not listed	Not listed
Lactose CAS#64044-51-5	Not listed	Not listed	Not listed

Section 9 - Physical and Chemical Properties

Physical State: Powder Solid

Appearance: Off white to cream

Odor: Characteristic enzyme odor

Vapor Pressure: Not available

Odor Threshold: Not available

Vapor Density: Not available

pH: 5.0-8.0

Relative Density: Not available

Melting point/freezing point: Not available

Solubility: Partially soluble

Boiling Point: Not available

Flash Point: Not available

Evaporation Rate: Not available

Partition coefficient: n-octanol/water: Not available

Autoignition Temperature: Not available

Decomposition Temperature: Not available

Viscosity: Not available

Specific Gravity/Density: Not available

Section 10 - Stability and Reactivity

Chemical Stability: Stable under ordinary conditions of use and storage. **Keep in freezer.**

Conditions to Avoid: Incompatible materials, excess heat. Avoid dust formation.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Unknown. Potentially hazardous fumes and gases.

Section 11 - Toxicological Information

CAS#8049-47-6 Pancreatin:

LD50 Oral: >10000 mg/kg (rat)

LD50 Dermal: Not available

LC50 Inhalation: Not available

Carcinogenicity: Pancreatin CAS#8049-47-6 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

CAS#64044-51-5 Lactose:

LD50 Oral: Not available

LD50 Dermal: Not available

LC50 Inhalation: Not available

Carcinogenicity: Lactose CAS#64044-51-5 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

Information on the likely routes of exposure: Routes of entry anticipated: oral, dermal, inhalation, and eye.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Developmental Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Specific Target Organ Toxicity, Single Exposure: Not available.

Specific Target Organ Toxicity, Repeated Exposure: Not available.

Symptoms associated with exposure: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause stomach irregularities.

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains.

Persistence and degradability: Product is readily biodegradable.

Bio-accumulative potential: Not available.

Mobility: Not available.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 - Additional Information

SDS Creation Date: 10/15/12

Revision #1: YM 4-21-14

Revision #2: RC 6/9/15

Revision #3: 3-4-20

Revision #4: 7-20-23

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