

Doc#: 931-EK004 Rev.B
Release Date: 09 November, 2011**1. CHEMICAL IDENTIFICATION/COMPANY**

Product Name: Diastase (α -Amylase) Enzyme Kit Catalog No.: EK004-5K

Manufacturer: BioGenex Laboratories, Inc.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Part No.	Description of Component	Formula	Hazard Status
HK718-5K	Diastase	Mixture	See Section 3 below
HK719-5K	Diastase Diluent	Mixture	Non-hazardous with NaN_3

3. HAZARDS IDENTIFICATION

Part No.	Chemical Name	Synonyms	CAS No.	Percent	Einecs#
HK718-5K	Alpha-amylase	(Same)	009000-90-2	100	232-565-6
HK719-5K	Sodium azide*	Azide	026628-22-8	<0.1	247-852-1

* This product contains sodium azide (CAS# 26628-22-8) at a concentration of less than 0.1%. Sodium azide is not classified as a hazardous chemical at the product concentration according to the relevant regulations. However, toxicity information regarding sodium azide at the product's concentration has not been thoroughly investigated. For more information, a Material Safety Data Sheet for sodium azide in pure form is available upon request.

Exposure Limits & NFPA Safety Ratings (Health-Fire-Reactivity)

CAS No.	OSHA PEL	ACGIH TLV	NIOSH	NFPA (H-F-R)
009000-90-2	NDA	NDA	NDA	NDA

4. FIRST AID MEASURES

HK718-5K

Get medical aid immediately.

EYES: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

SKIN: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

INGESTION: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person.

INHALATION: Move the victim to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively. No specific antidote exists.

5. FIRE-FIGHTING MEASURES

HK718-5K

FLASH POINT: NDA

FLAMMABLE LIMITS: NDA

FIRE AND EXPLOSION HAZARD: NDA

FIREFIGHTING MEDIA: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For larger fires, use water spray, fog or alcohol foam. Use agents suitable for type of surrounding fire.

FIREFIGHTING MEASURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus (SCBA) with full facepiece operated in positive pressure mode. Move container from fire area if possible. Do not scatter spilled material with more water than needed for fire control. Dike fire control water for later disposal. Avoid breathing hazardous vapors; keep upwind.

Toxic fumes produced under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

HK718-5K

Wear NIOSH/MSHA-approved respirator and full protective clothing. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite and place in closed containers for disposal. Flush spill area with water.

7. HANDLING AND STORAGE

HK718-5K

HANDLING: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation.

STORAGE: Observe all federal, state and local regulations when storing or disposing of this substance.

Store refrigerated in a tightly closed container in a well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

HK718-5K

VENTILATION: Provide local exhaust or process enclosure ventilation system to meet all federal, state, and local requirements.

RESPIRATORS: Follow the OSHA respirator regulations found in 29 CFR 1010.134. Always use a NIOSH-approved respirator when necessary.

EYE/SKIN PROTECTION: Wear safety goggles, gloves, and appropriate protective (impervious) clothing and equipment to prevent eye/skin contact with this substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

HK718-5K

BOILING POINT: NDA

VAPOR PRESSURE(MM HG): NDA

VAPOR DENSITY(AIR=1): NDA

MELTING POINT: NDA

SPECIFIC GRAVITY: NDA

SOLUBILITY(H₂O): Soluble

APPEARANCE & ODOR: White powder

10. STABILITY AND REACTIVITY

HK718-5K

STABILITY: Stable at room temperature in closed containers under normal storage and handling conditions.

CONDITIONS TO AVOID: None reported.

DECOMPOSITION: Carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: None reported.

11. TOXICOLOGICAL INFORMATION

HK718-5K

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation.

INGESTION: May cause irritation of the digestive tract.

INHALATION: Material is irritating to mucous membrane and upper respiratory tract. May cause allergic respiratory reaction.

CHRONIC: No chronic effects were documented.

TARGET ORGANS: None identified

ROUTES OF ENTRY: None indicated

The toxicological properties have not been thoroughly investigated.

Toxicity Data

CAS#	RTECS	LD50	CARCINOGENICITY					
			ACGIH	IARC	NIOSH	NTP	OSHA	Other
009000-90-2NDA		ORL-RAT LD50: >2 gm/kg	NDA	NDA	NDA	NDA	NDA	None

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. Consult the actual entry in RTECS for complete information.

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

HK718-5K

Observe all applicable federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

No information available.

15. REGULATORY INFORMATION

No information available.

16. MISCELLANEOUS INFORMATION

No additional information available.

N/A: Not Applicable NDA: No Data Available

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