



49026 Milmont Drive, Fremont, CA 94538  
 Tel : +1 (800) 421-4149, Fax: +1 (510) 824-1490,  
 support@biogenex.com

# Material Safety Data Sheet

Doc #: EK001 Rev. B  
 Release Date: 09 November, 2011

## 1. CHEMICAL IDENTIFICATION/COMPANY

Product Name: Enzyme Powder Trypsin 3-Pack/4-Pack kit Catalog No.: EK001-5K, EK001-10K

Manufacturer: BioGenex Laboratories, Inc.  
 49026 Milmont Drive, Fremont, CA 94538, USA  
 Information: Tel: +1 (800) 421-4149 Fax: +1 (510) 824-1490

Emergency Contact: BioGenex: +1 (800) 421-4149  
 Chemtrec Assistance: (800) 424-9300 (U.S. and Canada only) (01)(703) 527-3887 (All other countries)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Part No.	Description of Component	Formula	Hazard Status
HK052-5K	Lyophilized Trypsin	Mixture	See Section 3 below
HK055-5K	Buffer for Trypsin (for EK001-5K only)	Mixture	See Section 3 below
HK055-5O	Buffer for Trypsin (for EK001-5O only)	Mixture	See Section 3 below

## 3. HAZARDS IDENTIFICATION

Part No.	Chemical Name	Synonyms	CAS No.	Percent	Einecs#
HK052-5K, HK055-5K, HK055-5O *	Tris hydrochloride	Tris-HCl	001185-53-1	<10	214-684-5

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

CAS No.	OSHA PEL	ACGIH TLV	NIOSH	NFPA (H-F-R)
001185-53-1	NDA	NDA	NDA	NDA

## 4. FIRST AID MEASURES

HK052-5K, HK055-5K, HK055-5O  
 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

HK052-5K, HK055-5K, HK055-5O



49026 Milmont Drive, Fremont, CA 94538  
 Tel : +1 (800) 421-4149, Fax: +1 (510) 824-1490,  
 support@biogenex.com

## Material Safety Data Sheet

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

HK052-5K, HK055-5K, HK055-5O

Wear self-contained breathing apparatus (SCBA) 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

HK052-5K, HK055-5K, HK055-5O

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 in a tightly closed container in a cool area away from incompatible substances.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

HK052-5K, HK055-5K, HK055-5O

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 and appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged eye/skin contact with this substance.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

HK052-5K

BOILING POINT: NDA

VAPOR DENSITY(AIR=1): NDA

SPECIFIC GRAVITY: NDA

APPEARANCE & ODOR: White powder

VAPOR PRESSURE(MM HG): NDA

MELTING POINT: NDA

SOLUBILITY(H<sub>2</sub>O): NDA

HK055-5K,5O

BOILING POINT: NDA

VAPOR DENSITY(AIR=1): NDA

SPECIFIC GRAVITY: NDA

APPEARANCE & ODOR: Clear liquid

VAPOR PRESSURE(MM HG): NDA

MELTING POINT: NDA

SOLUBILITY(H<sub>2</sub>O): NDA

### 10. STABILITY AND REACTIVITY



49026 Milmont Drive, Fremont, CA 94538  
 Tel : +1 (800) 421-4149, Fax: +1 (510) 824-1490,  
 support@biogenex.com

## Material Safety Data Sheet

HK052-5K, HK055-5K, HK055-5O

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

CONDITIONS TO AVOID: Bases, oxidizing agents, acids, aldehydes, copper, brass, and aluminum. Avoid temperatures above 220°C.

DECOMPOSITION: Hydrogen chloride, chlorine, nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen, and ammonia and/or derivatives.

HAZARDOUS POLYMERIZATION: None reported.

### 11. TOXICOLOGICAL INFORMATION

HK052-5K, HK055-5K, HK055-5O

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation. May be absorbed through the skin. Skin absorption may cause unconsciousness.

INGESTION: May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.

INHALATION: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.

CHRONIC: Prolonged or repeated exposure may cause dermatitis.

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
001185-53-1	Unlisted	NDA	No	No	No	No	No	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

HK052-5K, HK055-5K, HK055-5O

Dispose in accordance with all applicable federal, state, and local environmental regulations.

Not listed as a material banned from land disposal according to RCRA.

### 14. TRANSPORT INFORMATION

No information available.

### 15. REGULATORY INFORMATION

No information available.



 49026 Milmont Drive, Fremont, CA 94538  
Tel : +1 (800) 421-4149, Fax: +1 (510) 824-1490,  
support@biogenex.com

## Material Safety Data Sheet

---

### 16. MISCELLANEOUS INFORMATION

No additional information available.

---

N/A: Not Applicable    NDA: No Data Available

Each BioGenex MSDS was developed to be used only with the corresponding BioGenex product. The information above is believed to be accurate and represents the best information currently available. We make, however, NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. Users should make their own investigations to determine the suitability of the information for their particular purposes. BioGenex MSDS's are not for resale.