BioGenex

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

Material Safety Data Sheet

Doc. No. HK086 Rev. No. C
Release Date: 09 November, 2011

1. CHEMICAL IDENTIFICATION/COMPANY

Product Name: Antigen Retrieval *Citra,* 10X Concentrated Solution — Catalog No.: HK086-5K, HK086-9K

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
HK086-5K, HK086-9K	Antigen Retrieval *Citra,* 10X Concentrated Solution	Mixture

3. HAZARDS IDENTIFICATION

Part No.	Chemical Name	Synonyms	CAS No.	Percent	Einecs#
HK086-5K, HK086-9K					
	Citric acid anhydrous	2-Hydroxy-1,2,3-tricarboxylic acid	77-92-9	< 10	201-069-1

EXPOSURE LIMITS

CAS No.	OSHA PEL	ACGIH TLV	NIOSH	OTHER
77-92-9	NDA	NDA	NDA	None

4. FIRST AID MEASURES

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.
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

FLASH POINT: NDA FLAMMABLE LIMITS: NDA
FIRE AND EXPLOSION HAZARD: Unknown fire and explosion hazard.
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.

BioGenex

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

Material Safety Data Sheet

FIREFIGHTING MEASURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus 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 GASES PRODUCED: NDA

6. ACCIDENTAL RELEASE MEASURES

Wear self-contained breathing apparatus 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

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

VENTILATION: Provide local exhaust or process enclosure ventilation system to meet all federal, state, and local requirements.
RESPIRATOR: None required where adequate ventilation conditions exist.
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

BOILING POINT: NDA
VAPOR DENSITY(AIR=1): NDA
SPECIFIC GRAVITY: NDA
APPEARANCE & ODOR: NDA
VAPOR PRESSURE(MM HG): NDA
MELTING POINT: NDA
SOLUBILITY(H2O): NDA

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures.
CONDITIONS TO AVOID: Strong oxidizing agents, metallic nitrates.
DECOMPOSITION: Carbon monoxide, carbon dioxide.
HAZARDOUS POLYMERIZATION: None reported.

11. TOXICOLOGICAL INFORMATION

INHALATION: May cause respiratory tract irritation.
EYE CONTACT: May cause severe eye irritation and possible eye burns.
SKIN CONTACT: May cause skin irritation.
INGESTION: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea.
CHRONIC: Repeated exposure may cause erosion of teeth.
TARGET ORGANS: None identified
ROUTES OF ENTRY: None indicated

BioGenex

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

Material Safety Data Sheet

CAS#	RTECS	LD50	CARCINOGENICITY ACGIH	IARC	NIOSH	NTP	OSHA
77-92-9	GE7350000	Oral mouse = 5.04 gm/kg Oral rat = 3 gm/kg	No	No	No	No	No

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.
Environmental Fate: No information available.
Physical/Chemical: No information available.

13. DISPOSAL CONSIDERATIONS

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

US DOT: No information available
IMO: No information available.
IATA: No information available.
RID/ADR: No information available.
Canadian TDG: No information available.

15. REGULATORY INFORMATION

No information available.

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.