BioGenex

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Material Safety Data Sheet

Doc#: HK058 Rev. B
Release Date: 09 November, 2011

1. CHEMICAL IDENTIFICATION/COMPANY

Product Name: Antigen Retrieval *AR*-10 Solution, Ready-to-Use Catalog No.: HK058-5K

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. only)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Part No.	Description of Component	Formula
HK058-5K	Antigen Retrieval *AR*-10 Solution, Ready-to-Use	Mixture

3. HAZARDS IDENTIFICATION

Part No.	Chemical Name	Synonyms	CAS No.	Percent	Einecs#
HK058-5K	Tris(hydroxymethyl)aminomethane	Tris, Trizma	77-86-1	<10	Unlisted

EXPOSURE LIMITS

CAS No.	OSHA PEL	ACGIH TLV	NIOSH	OTHER
77-86-1	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. 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

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.
FIREFIGHTING MEASURES: Firefighters should wear proper protective equipment and self-contained breathing apparatus (SCBA) with full

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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

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

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 cool 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.

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

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

10. STABILITY AND REACTIVITY

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.

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

HAZARDOUS POLYMERIZATION: None reported.

11. TOXICOLOGICAL INFORMATION

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.

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Toxicity data

CAS#	RTECS	LD50	CARCINOGENICITY ACGIH	IARC	NIOSH	NTP	OSHA	Other
77-86-1	TY2900000	ORL-RAT: 5.9 gm/kg	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

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

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