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Material Safety Data Sheet

Doc#: HK169 Rev. B
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1. CHEMICAL IDENTIFICATION/COMPANY

Product Name: H&E Retrieval Solution, 10X Concentrated Catalog No.: HK169-5K
 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
HK169-5K	H&E Retrieval Solution, 10X Concentrated	Mixture

3. HAZARDS IDENTIFICATION

Part No.	Chemical Name	Synonyms	CAS No.	Percent	Einecs#
HK169-5K	Tris(hydroxymethyl)aminomethane	Tris, Trizma	77-86-1	<50	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 facepiece operated in positive pressure mode. Move container from fire area if possible. Do not scatter spilled material with more water

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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



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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
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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