

Doc No: 931-ZP200-YBK Rev: C Date of Release: 31-Jul-2023

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

- a) GHS Product Identifier : Super Sensitive Mouse on Mouse (M.O.M.) 1-step Poly HRP kit
- b) Other means of identification : Not available
- c) Product code : ZP200-60K, ZP200-YDK, ZP200-XAK
- d) Recommended use of the chemical and restrictions on use : Restricted for professional users.
- e) Supplier's details (including name, address, phone number etc.) : BioGenex Laboratories, Inc
48810 Kato Road, Suite 100E & 200E
Fremont, CA 94538
- f) Emergency phone number : BioGenex: (01) (510) 275-0550
Chemtrec Assistance: (800) 424-9300 (U.S. and Canada only)
(01) (703) 527-3887 (all other countries)

2. HAZARD IDENTIFICATION

- a) GHS classification of the substance/mixture and any national or regional information:

NAME	COMPONENT NAME	EC NO	CAS NO	CONTENT	CLASSIFICATION
HL312	M.O.M. Mouse Poly HRP	Not listed	9002-93-1	Triton X-100	NDA
		231-834-5	7758-11-4	Potassium phosphate	NDA
		200-664-3	67-68-5	Dimethyl sulfoxide	NDA
		Not listed	96118-96-6	Proclin 300	C, Xn, Xi, N
HK111	Peroxide Block	231-765-0	7722-84-1	Hydrogen Peroxide	R5 - O; R8 - C; R35 - Xn; R20/22
HL311	M.O.M. Mouse Ig Blocking Reagent	247-852-1	26628-22	Sodium Azide	R28-R32-N;R50-53
HK124	Liquid DAB Chromogen	Proprietary ingredient A**	NDA	NDA	NDA
		Proprietary ingredient B**	NDA	NDA	NDA
		231-018-9	7411-49-6	3, 3'-Diaminobenzodine tetrahydrochloride	Xn
HK520	Stable DAB Buffer	NDA	NDA	Proprietary ingredient A	NDA
		NDA	NDA	Proprietary ingredient A	NDA

- b) GHS label elements, including precautionary statements :

HK111

LABELING:



O

C

SIGNAL WORD : WARNING

Contains : HYDROGEN PEROXIDE

R phrases

R8 : Contact with combustible material may cause fire

R35 : Causes severe burns

R20/22 : Harmful by inhalation and if swallowed

Safety phrases

S1/2 : Keep locked up and out of the reach of children

S17 : Keep away from combustible material

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 : After contact with skin, with immediately with plenty of soap and water

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection

S45 : In case of accident or if you feel unwell, seek medical advice immediately.

HL311

LABELING:



SIGNAL WORD: DANGER

Contains: SODIUM AZIDE

Risk Phrases:

R28 : Very toxic if swallowed.

R32 : Contact with acids liberates very toxic gas.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases :

S1/2 : Keep locked up and out of the reach of children.

S28 : After contact with skin, wash immediately with plenty of . . . (to be specified by the manufacturer).

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 : This material and its container must be disposed of as hazardous waste.

S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

HK124

LABELING :



SIGNAL WORD: WARNING

Contains: DAB

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

HK520

LABELING



CONTAINS: DIMETHYL FORMAMIDE

RISK PHRASES

R61 : May cause harm to the unborn child.

SAFETY PHRASES

S38 : In case of insufficient ventilation, wear suitable respiratory equipment.

S39 : Wear eye/face protection.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S53 : Avoid exposure - obtain special instructions before use.

S60 : This material and/or its container must be disposed of as hazardous waste.

P11 : Restricted to professional users.

c) Other hazards which do not result in the classification or are not covered by the GHS: Restricted to professional users.

NDA

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

a) Chemical identity : Mixture

b) Common name, synonyms, etc : NDA

c) CAS number and other unique identifiers

PART NO.	CHEMICAL NAME	SYNONYMS	CAS NO.	PERCENT	EINECS#
HK111	Hydrogen Peroxide	-	7722-84-1	30%	231-765-0
HL311	Sodium Azide	Sodium salt of hydrazoic acid Smite; Azium.	26628-22-8	<1%	247-852-1
HK124	3,3'-Diaminobenzodine tetrahydrochloride	DAB	7411-49-6	**	231-018-9
HK520	Proprietary ingredient A**	---	-	<50	-
	Proprietary ingredient B**	---	-	>50	-

** For the proprietary ingredient, specific chemical identity is being withheld as a trade secret.

4. FIRST AID MEASURES

HK520, HK124, HK111, HL311

EYES: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Do NOT allow victim to rub or keep eyes closed.

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: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

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

HK520, HK124, HK111, HL311

- a) Suitable (and unsuitable) extinguishing media :
Use extinguishing media appropriate for the surrounding fire: dry chemical, foam, carbon dioxide or water. Water spray may be used to cool fire and/or protect response personnel.
- b) Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products):
The product itself does not burn. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Keep away from strong acids
- c) Special protective equipment and precautions for fire-fighters:
Firefighters should wear proper protective equipment and self-contained breathing apparatus (SCBA) if necessary.

6. ACCIDENTAL RELEASE MEASURES

HK520, HK124, HK111, HL311

- a) Personal precautions, protective equipment and emergency procedures:
Personal protective equipment and clothing is recommended during all cleanup procedures. Eliminate all ignition sources, stop or control leak. Refer to Section 8 for additional information on exposure controls and personal protective equipment.
- b) Environmental precautions:
Do not allow into any body of water. Check with local and State regulations before discharging into sewers or public landfills.
- c) Methods and materials for containment and cleaning up.
Avoid physical contact during removal. An approved respirator is recommended when irritant or nuisance vapors are produced. Flood area with water immediately. Control spill with wetted paper towels and isolate material. Place in a closed container and hold for waste disposal. Make sure towels or absorbent materials remain wet while waiting for chemical waste pick-up. Ventilate area and wash spill site after material pickup is complete. Refer to Section 13 for complete disposal information.

7. HANDLING AND STORAGE

HK520, HK124, HK111, HL311

- a) Precautions for safe handling:
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Eliminate all sources of ignition. Avoid eating, drinking and smoking when using the product.
- b) Conditions for safe storage, including any incompatibilities:
Keep container in a tightly closed in a ventilated area. The recommended storage temperature is 2-8°C. Keep away from heat, sparks and open flame. Keep separate from food, feedstuffs, fertilizers and other sensitive material. Do not store in direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

HK520, HK124, HK111, HL311

Engineering Controls:

Provide adequate general and local exhaust ventilation. Ensure compliance with applicable exposure limits.

Personal Protective Equipment

Eyes: Wear safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: None required where adequate ventilation conditions exist. .

9. PHYSICAL AND CHEMICAL PROPERTIES

HK520, HK111, HL311

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

HK124

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

10. STABILITY AND REACTIVITY**HK124**

STABILITY: Stable under recommended conditions.

CONDITIONS TO AVOID: Strong oxidizing agents; Mixtures with hydrogen peroxide are highly explosive; Ignites on contact with potassium permanganate or calcium hypochlorite; nitric acid and sulfuric acid; perchloric acid and lead oxide..

HAZARDOUS POLYMERISATION : Hazardous polymerization does not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.

HK520, HK111, HL311

STABILITY: Stable under recommended conditions.

CONDITIONS TO AVOID : Avoid dust formation. Incompatible products

HAZARDOUS POLYMERISATION : Hazardous polymerization does not occur.

MATERIALS TO AVOID : Strong oxidizing agents, Alcohols, Powdered metal salts

HAZARDOUS DECOMPOSITION PRODUCTS : Carbon monoxide (CO), Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

a) Information on the likely routes of exposure: Eyes, Oral, Dermal, Inhalation

b) Symptoms related to the physical, chemical and toxicological characteristics:

HK124

INHALATION: May cause respiratory tract irritation

INGESTION: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea

SKIN CONTACT: May cause skin irritation. May be fatal if absorbed through skin.

EYE CONTACT: May cause severe eye irritation and possible eye burns.

CHRONIC: Repeated exposure may cause erosion of teeth.

HK520, HK111, HL311

INHALATION: May cause respiratory tract irritation.

INGESTION: May cause nausea, vomiting, headaches, dizziness, and gastrointestinal irritation.

SKIN CONTACT: May cause skin irritation.

EYE CONTACT: May cause eye irritation

TARGET ORGANS: NDA

c) Delayed and immediate effects and also chronic effects from short and long term exposure

NDA

d) Numerical measures of toxicity (such as acute toxicity estimates)

TOXICITY DATA

HK124

CAS#	RTECS	LD50		CARCINOGENICITY					
				ACGIH	IARC	NIOSH	NTP	OSHA	Other
7411-49-6	DV8753000	IPR-MUS: 63 mg/kg	NCIBR* NCI-E-68-1311, 73	NDA	NDA	NDA	NDA	NDA	Ca Prop 65

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

HK520-

No data on possible environmental effects have been found.

12. ECOLOGICAL INFORMATION

HK520, HK124, HK111, HL311

- a) Ecotoxicity (aquatic and terrestrial, where available): NDA
- b) Persistence and degradability : NDA
- c) Bioaccumulative potential : NDA
- d) Mobility in the soil : NDA
- e) Other adverse effects : NDA

13. DISPOSAL INFORMATION

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

HK520, HK124, HK111, HL311

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

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

HK124

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

HK520

RISK PHRASES

R61 : May cause harm to the unborn child.

SAFETY PHRASES

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S53 : Avoid exposure - obtain special instructions before use.

S60 : This material and/or its container must be disposed of as hazardous waste.

P11 : Restricted to professional users.

16. Other information including information on preparation and revision of the SDS

Key abbreviations:

N/A

: Not Applicable

NDA

: No data available

Notice to reader

Each BioGenex SDS 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



SAFETY DATA SHEET

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