

Doc No: 931-DF530-20X Rev: B Date of Release: 22-Sep-2020

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

- a) GHS Product Identifier : eFISH CYTO Kit For NanoVIP®
- b) Other means of identification : Not available
- c) Product code : DF530-20X
- 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:

PART NO.	CHEMICAL NAME	SYNONYMS	CAS NO.	PERCENT	EINECS#
HX632-06X	Pepsin	Pepsin fortiori,	9001-75-6	100	232-629-3
		Pepsin A, lactated			
		Pepsin			
HX603-08X	Formaldehyde	Methanal	50-00-0	10	200-001-8
		Methyl aldehyde			
		Methylene oxide			
HX604-20X	Sodium Citrate	2-Hydroxy-	68-04-2	<10	200-675-3
		1,2,3-Propanetricarboxylic			
		Acid Trisodium Salt			
HX605-20X	Sodium Chloride	Common salt	7647-14-5	<20	231-598-3
		Halite; Rock salt; Saline;			
		Salt; Sea salt; Table salt			
HX605-20X	Proclin 300 (Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one)	Bio-perge	26172-55-4	0.1	247-500-7
			2682-20-4		220-239-6
		Alpha-(para-Nonphenyl0-omega Hydroxynona-(oxyethylene)	9016-45-9	1	Not listed
HX605-20X	Sodium Phosphate di basic	Disodium hydrogen orthophosphate	7558-79-4	<1	231-448-7
		Sodium hydrogen phosphate			

	disodium phosphate			
	Acid Trisodium Salt			
Potassium phosphate, Monobasic	Potassium phosphate monobasic	7778-77-0	<1	231-913-4
	Phosphoric acid, Phosphoric acid			
Potassium chloride	Sylvite	7447-40-7	<1	231-211-8
	Muriate of potash			
Sodium Chloride	Common salt	7647-14-5	<20	231-598-3
	Halite; Rock salt; Saline;			
	Salt; Sea salt; Table salt			
Proclin 300 (Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one)	Bio-perge	26172-55-4	0.1	247-500-7
		2682-20-4		220-239-6

b) GHS label elements, including precautionary statements :

HX632-06X

LABELLING:



**SIGNAL WORD:** DANGER

HX603-08X

LABELLING:



**SIGNAL WORD:** WARNING

HX605-20X

LABELLING:



**SIGNAL WORD:** DANGER

HX604-20X, HK972, HK973

LABELLING:



**SIGNAL WORD:** DANGER

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

**EXPOSURE LIMITS**

CAS No.	OSHA PEL	ACGIH TLV	NIOSH	OTHER
9001-75-6	NDA	NDA	NDA	NDA
50-00-0	TWA 0.75 ppm ST 2 ppm	0.3ppm	TWA 0.016 ppm C 0.1 ppm [15-minute]	NDA
68-04-2	NDA	NDA	NDA	NDA
7647-14-5	NDA	NDA	NDA	NDA
26172-55-4	NDA	NDA	NDA	NDA
2682-20-4	NDA	NDA	NDA	NDA

9016-45-9	NDA	NDA	NDA	NDA
7558-79-4	NDA	NDA	NDA	NDA
7778-77-0	NDA	NDA	NDA	NDA
7447-40-7	NDA	NDA	NDA	NDA
26172-55-4	NDA	NDA	NDA	NDA
56-81-5	NDA	NDA	NDA	NDA
7647-01-0	5 ppm (7 mg/m <sup>3</sup> )	2 ppm	5 ppm (7 mg/m <sup>3</sup> )	NDA
2682-20-4	NDA	NDA	NDA	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.	DESCRIPTION OF COMPONENT	FORMULA
HX632-06X	Pepsin	Liquid
HX603-08X	eFISH Formaline Fixative	powder
HX604-20X	eFISH Wash buffer 1	Mixture
HX605-20X	eFISH Wash buffer 2	Mixture

### 4. FIRST AID MEASURES

HX632-06X , HX603-08X , HX604-20X , HX605-20X

**EYES:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

**SKIN:** Remove victim to nearest source of water. Remove contaminated clothing, blot excess chemical from skin and wash affected area under lukewarm water using a mild soap. Rinse for at least 20 minutes and blot dry. Seek immediate medical attention.

**INGESTION:** Remove victim to well-ventilated area and clean mouth with water. Seek immediate medical attention.

**INHALATION:** Remove victim to well-ventilated area. Seek medical attention. If conscious but coughing or short of breath, loosen tight fitting clothing, have victim lie down and keep warm and calm. Oxygen may be given. If simply overwhelmed, loosen tight clothing, lie victim down, monitor pulse and keep warm and calm.

**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.

**SPECIAL FIRE FIGHTING PROCEDURES:** Avoid inhalation of toxic fumes. If possible, safely move container away from fire area.

SPECIFIC HAZARDS: NDA

PROTECTIVE MEASURES IN FIRE: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 5. FIRE-FIGHTING MEASURES

HX632-06X , HX603-08X , HX604-20X , HX605-20X

- 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.
- 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

HX632-06X , HX603-08X , HX604-20X , HX605-20X 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

HX632-06X , HX603-08X , HX604-20X , HX605-20X

- 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.
- 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

HX632-06X , HX603-08X , HX604-20X , HX605-20X

**Engineering Controls:**

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

**Personal Protective Equipment****Eyes:** Splash-proof chemical safety goggles or face shield.**Skin:** Use chemically resistant gloves (e.g. rubber, plastic), lab coat with sleeves or rubber apron.**Clothing:** Wear appropriate protective clothing to prevent skin exposure.**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.**9. PHYSICAL AND CHEMICAL PROPERTIES**

HX632-06X

BOILING POINT : NDA

VAPOR PRESSURE (MM HG): NDA

VAPOR DENSITY (AIR=1) : NDA

MELTING POINT : NDA

SPECIFIC GRAVITY : NDA

SOLUBILITY (H2O) : NDA

APPEARANCE &amp; ODOR : Liquid

HX632-06X , HX603-08X , HX604-20X , HX605-20X  
NDA

BOILING POINT : NDA

VAPOR PRESSURE (MM HG):

VAPOR DENSITY (AIR=1): NDA

MELTING POINT: NDA

SPECIFIC GRAVITY : NDA

SOLUBILITY (H2O): NDA

APPEARANCE &amp; ODOR : Yellow, Solid

**10. STABILITY AND REACTIVITY**

HX632-06X 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)

HX603-08X STABILITY: Stable under recommended conditions.

CONDITIONS TO AVOID: NDA

HAZARDOUS POLYMERISATION: Hazardous polymerization does not occur.

MATERIALS TO AVOID: Strong oxidizers, alkalis &amp; acids; phenols; urea

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

HX604-20X, HX605-20X

STABILITY: NDA.

CONDITIONS TO AVOID: NDA

DECOMPOSITION: NDA

HAZARDOUS POLYMERIZATION: NDA



## 12. ECOLOGICAL INFORMATION

HX632-06X , HX603-08X , HX604-20X , HX605-20X

- 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.

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

## 14. TRANSPORT INFORMATION

US DOT: Non-Regulated

IMO: No information available.

IATA: No information available.

RID/ADR: No information available.

Canadian TDG: No information available.

## 15. REGULATORY INFORMATION

HX632-06X Risk phrases

R36/37/38 : Irritating to eyes, respiratory system and skin.

R42 : May cause sensitization by inhalation.

Safety Phrases :

S2 : Keep out of the reach of children.

S22 : Do not breathe dust.

S24 : Avoid contact with skin.

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

S36/37 : Wear suitable protective clothing and gloves.

HX603-08X Risk phrases:

R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.

R34 : Causes burns.

R40 : Limited evidence of a carcinogenic effect.



R43 : May cause sensitization by skin contact.

Safety Phrases :

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

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

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 (show the label where possible).

S51 : Use only in well-ventilated areas.

## **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

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