

SAFETY DATA SHEET**XISH™ ONE STEP POLYMER-HRP DETECTION SYSTEM FOR NANOVIP®**

Doc. No.931- DF540-YADX-EN Rev: B Date of Release: 22-Sep-2020

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	XISHTM One step Polymer-HRP Detection System for NanoVIP ®		
PRODUCT NO.	DF540-YADX		
SUPPLIER	Emergo Europe Prinsessegracht 20, 2514 AP The Hague, The Netherlands Tel:(+31)70-345-8570 Fax:(+31)70-346-7299	MANUFACTURER	BioGenex Laboratories Inc. 48810 Kato Road, Suite 100E & 200E Fremont, CA 94538 Tel : +1 (800) 421-4149, Fremont, CA 94538 Fax: +1 (510)824-1490, support@biogenex.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

NAME	COMPONENT NAME	EC NO	CAS NO	CONTENT	CLASSIFICATION
HX601-08X	NAR Solution	201-069-1	77-92-9	Citric Acid	NDA
HX839-06X	Wash Solution	Not listed	6132-04-3	Sodium Citrate	NDA
	IA	231-598-3	7647-14-5	Sodium Chloride	NDA
HX880-06X	Wash Solution B	Not listed	6132-04-3	Sodium Citrate	NDA
		231-598-3	7647-14-5	Sodium Chloride	NDA
HX946-06X	Wash Solution	Not listed	6132-04-3	Sodium Citrate	NDA
	Stock	231-598-3	7647-14-5	Sodium Chloride	NDA
HX947-06X	Wash Solution	Not listed	6132-04-3	Sodium Citrate	NDA
	Stock	231-598-3	7647-14-5	Sodium Chloride	NDA
HX026-06X	Peroxide Block	231-765-0	7722-84-1	Hydrogen Peroxide	R5 - O; R8 - C; R35 - Xn; R20/22
		215-778-9	1405-41-0	Gentamicin	NDA
		215-773-1	1405-10-3	Neomycin	NDA
HX083-06X	Power Block	247-852-1	26628-22-8	Sodium Azide	R28 - R32 - N; R50-53
		247-852-1	26628-22-8	Sodium Azide	R28 - R32 - N; R50-53
HX818-08X	Mouse Anti-Fluorescein	247-852-1	26628-22-8	Sodium Azide	R28 - R32 - N; R50-53
HX943-06X	One step polymer solution	247-852-1	26628-22-8	Sodium Azide	R28 - R32 - N; R50-53
		Proprietary ingredient A**	NDA	NDA	NDA
		Proprietary ingredient B**	NDA	NDA	NDA
HX124-04X	Liquid DAB Chromogen	231-018-9	7411-49-6	3, 3'-Diaminobenzodine tetrahydrochloride	Xn
		NDA	NDA	Proprietary ingredient A	NDA
HX029-08X	Stable DAB Buffer	NDA	NDA	Proprietary ingredient A	NDA
		NDA	NDA	Proprietary ingredient A	NDA
HX030-06X	Hematoxylin	200-580-7	64-19-7	Acetic acid	R10 - C; R35
		208-237-3	517-28-2	Hematoxylin	NDA

The Full Text for all R-Phrases are Displayed in Section 15

SAFETY DATA SHEET**XISH™ ONE STEP POLYMER-HRP DETECTION SYSTEM FOR NANOVIP®**

3. HAZARDS IDENTIFICATION

HX026-06X : Combustive, Corrosive, Harmful, Dangerous to the environment
HX083-06X, HX818-08X, HX943-06X : Persistent and harmful to environment
HX030-06X : Corrosive

4. FIRST AID MEASURES

HX083-06X, HX026-06X, HX029-08X, HX943-06X , HX030-06X, HX051-06X, HX601-08X, HX839-06X, HX880-06X, HX946-06X, HX947-06X, HX818-08X, HX881-08X, HX124-04X

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

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

SKIN CONTACT: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

EYE CONTACT: 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.

5. FIRE--FIGHTING MEASURES

HX083-06X, HX026-06X, HX029-08X, HX943-06X , HX030-06X, HX051-06X, HX601-08X, HX839-06X, HX880-06X, HX946-06X, HX947-06X, HX818-08X, HX881-08X, HX124-04X

EXTINGUISHING MEDIA

Use water, Alcohol resistant foam, carbon dioxide or dry chemical

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters should wear proper protective equipment and self-contained breathing apparatus (SCBA) if necessary.

UNUSUAL FIRE & EXPLOSION HAZARDS

No Data Available

SPECIFIC HAZARDS

Keep away from strong acids

PROTECTIVE MEASURES IN FIRE

Firefighters should wear proper protective equipment and self-contained breathing apparatus (SCBA) if necessary

6. ACCIDENTAL RELEASE MEASURES

HX083-06X, HX026-06X, HX029-08X, HX943-06X , HX030-06X, HX051-06X, HX601-08X, HX839-06X, HX880-06X, HX946-06X, HX947-06X, HX818-08X, HX881-08X, HX124-04X

PERSONAL PRECAUTIONS

Use protective gloves and wear approved safety goggles. Wash hands at the end of each work shift and before eating, smoking and using the toilet. If ventilation is insufficient suitable respiratory equipment should be provided.

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Do not let the product enter drains

SPILL CLEAN UP METHODS

Wear self-contained breathing apparatus (SCBA) and full protective clothing. It is advised to avoid dust formation. Do not let the spilled material enter drains.

7. HANDLING AND STORAGE

HX083-06X, HX026-06X, HX029-08X, HX943-06X , HX030-06X, HX051-06X, HX601-08X, HX839-06X, HX880-06X, HX946-06X, HX947-06X, HX818-08X, HX881-08X, HX124-04X

HANDLING: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with skin, eyes, and clothing.

STORAGE: Observe all federal, state and local regulations when storing or disposing of this substance. Keep away from heat and flame. Do not store in direct sunlight. Store in a cool and properly ventilated area.

HX030-06X

USAGE PRECAUTIONS: Eliminate all sources of ignition. Avoid spilling, skin and eye contact. Avoid eating, drinking and smoking when using the product.

STORAGE PRECAUTIONS: Keep away from heat, sparks and open flame. Keep separate from food, feedstuffs, fertilizers and other sensitive material.

HX083-06X

USAGE PRECAUTIONS: Avoid spilling, skin and eye contact. Avoid eating, drinking and smoking when using the product.

STORAGE PRECAUTIONS: Keep container in a tightly closed in a ventilated area. The recommended storage temperature is 2-8°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

NAME	Std	LT-ppm	LT-mg/m ³	ST-ppm	ST--mg/m ³
Pepsin	NDA	NDA	NDA	NDA	NDA
Citric Acid	NDA	NDA	NDA	NDA	NDA
Sodium Citrate	NDA	NDA	NDA	NDA	NDA
Sodium Chloride	NDA	NDA	NDA	NDA	NDA
Hydrogen peroxide	WEL	1 ppm	1.4 mg m-3	2 ppm	2.8 mg m-3
Gentamicin	NDA	NDA	NDA	NDA	NDA
Neomycin	NDA	NDA	NDA	NDA	NDA
Sodium Azide	ACGIH	NDA	NDA	NDA	NDA
DAB	NDA	NDA	NDA	NDA	NDA
Acetic acid	NDA	NDA	NDA	NDA	NDA
Hematoxylin	NDA	NDA	NDA	NDA	NDA

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

SAFETY DATA SHEET**XISH™ ONE STEP POLYMER-HRP DETECTION SYSTEM FOR NANOVIP®**

HAND PROTECTION

Use protective gloves

EYE PROTECTION

Wear approved safety goggles.

HYGIENE MEASURESWash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIESHX083-06X, HX026-06X, HX029-08X, HX943-06X , HX030-06X, HX051-06X, HX601-08X, HX839-06X, HX880-06X,
HX946-06X, HX947-06X, HX818-08X, HX881-08X, HX124-04X

Appearance	Liquid
Colour	NDA
Odour	NDA

10. STABILITY AND REACTIVITYHX083-06X, HX026-06X, HX029-08X, HX943-06X , HX030-06X, HX051-06X, HX601-08X, HX839-06X, HX880-06X,
HX946-06X, HX947-06X, HX818-08X, HX881-08X, HX124-04X

STABILITY: NDA.

CONDITIONS TO AVOID: NDA

DECOMPOSITION: NDA

HAZARDOUS POLYMERIZATION: NDA

HX083-06X

STABILITY: Stable when stored at recommended conditions.

CONDITIONS TO AVOID: Incompatible materials like strong oxidizing agents, light, dust generation, excess heat.

DECOMPOSITION: Nitrogen oxides, carbon monoxide, carbon dioxide, sulfur oxides (SOx), including sulfur oxide and sulfur dioxide, hydrazoic acid.

HAZARDOUS POLYMERIZATION: NDA

11. TOXICOLOGICAL INFORMATIONHX083-06X, HX026-06X, HX029-08X, HX943-06X , HX030-06X, HX051-06X, HX601-08X, HX839-06X, HX880-06X,
HX946-06X, HX947-06X, HX818-08X, HX881-08X, HX124-04X

EYE CONTACT: May cause irritation

SKIN CONTACT: May be harmful and might cause irritation.

INGESTION: Maybe harmful if ingested.

INHALATION: May cause irritation of the respiratory.

CHRONIC: NDA

SAFETY DATA SHEET**XISH™ ONE STEP POLYMER-HRP DETECTION SYSTEM FOR NANOVIP®**

HX083-06X

EYE CONTACT: May cause irritation.

SKIN CONTACT: May be harmful if absorbed through skin and might result in sensitization

INGESTION: May cause gastro intestinal irritation. Reports of hearing loss, neuromuscular paralysis are known.

Might cause photosensitivity.

INHALATION: May cause respiratory tract irritation with

CHRONIC: In case of maternal toxicity, fetal effects have been reported in animal studies. Chronic exposure may cause kidney damage, reproductive effects. As Neomycin is an aminoglycoside, which are known to induce nephrotoxicity (toxic to kidney cells) and ototoxicity (having a toxic effect on the structures of the ear, especially the nerve supply).

12. ECOLOGICAL INFORMATION

HX083-06X, HX026-06X, HX029-08X, HX943-06X , HX030-06X, HX051-06X, HX601-08X, HX839-06X, HX880-06X, HX946-06X, HX947-06X, HX818-08X, HX881-08X, HX124-04X

Ecotoxicity: NDA.

Environmental Fate: NDA.

Physical/Chemical: NDA.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

No data available

15. REGULATORY INFORMATION

HX026-06X

Labelling :



O



C

R phrases

R8 : Contact with combustible material may cause fire

R20/22 : Harmful by inhalation and if swallowed

R35 : Causes severe burns

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. Show the label where possible

HX083-06X, HX818-08X, HX943-06X

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Labelling :

R 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.

S Phrases

S1/2 : Keep locked up and out of the reach of children
S28 : After contact with skin wash with plenty of soap
S45 : In case of accident seek medical advice immediately
S60 : Dispose of the material and the container as hazardous waste
S61 : Avoid release in to the environment

HX124-04X

Risk phrases : No data available
Safety phrases : No data available

HX030-06X



Labelling

C:

Risk phrases
R10 : Flammable
R35 : Causes severe burns
Safety phrases
S1/2 : Keep locked up and out of reach of the reach of children
S23 : Do not breath gas/fumes/ vapors/spray
S26 : In case of contact with eyes, rinse immediately with plenty of water
S45 : In case of accident or accident spill, seek medical advice.

16. OTHER INFORMATION

NDA

REVISION COMMENTS

Compiled in accordance with 1999/45/EC (Dangerous Preparations Directive) and 28th ATP (Adaptation to Technical Progress) to 67/548/EEC (Dangerous Substances Directive)./44

N/A: Not Applicable

NDA: No Data Available

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