

March 31, 2022

Dong Tai City Huayi Gloves Co.,Ltd. % Boyle Wang Official Correspondent Shanghai Truthful Information Technology Co., Ltd. RM. 1801, No. 161 Lujiazui East Rd.,Pudong Shanghai, Shanghai 200120 China

Re: K213843

Trade/Device Name: Nitrile Examination Gloves

Regulation Number: 21 CFR 880.6250

Regulation Name: Non-Powdered Patient Examination Glove

Regulatory Class: Class I, reserved

Product Code: LZA Dated: March 15, 2022 Received: March 21, 2022

#### Dear Boyle Wang:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <a href="https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm">https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm</a> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <a href="https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products">https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products</a>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <a href="https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems">https://www.fda.gov/medical-device-problems</a>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance</a>) and CDRH Learn (<a href="https://www.fda.gov/training-and-continuing-education/cdrh-learn">https://www.fda.gov/training-and-continuing-education/cdrh-learn</a>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice</a>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Bifeng Qian, M.D., Ph.D.
Acting Assistant Director
DHT4B: Division of Infection Control
and Plastic Surgery Devices
OHT4: Office of Surgical
and Infection Control Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

# DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

### Indications for Use

510(k) Number (if known)

Form Approved: OMB No. 0910-0120 Expiration Date: 06/30/2023

Expiration Date: 06/30/2023 See PRA Statement below.

K213843				
Device Name				
Nitrile Examination Gloves				
ndications for Use (Describe)				
The Nitrile Examination Glove is a non-sterile disposable device intended for medical purposes that is worn on the				
examiner's hands or finger to prevent contamination between patient and examiner.				
Type of Use (Select one or both, as applicable)				
☐ Prescription Use (Part 21 CFR 801 Subpart D) ☐ Over-The-Counter Use (21 CFR 801 Subpart C)				
CONTINUE ON A SEPARATE PAGE IE NEEDED				

This section applies only to requirements of the Paperwork Reduction Act of 1995.

#### \*DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.\*

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# 510(k) Summary (K213843)

This summary of 510(k) is being submitted in accordance with 21 CFR 807.92.

#### 1.0 Submitter's Information

Name: DONG TAI CITY HUAYI GLOVES CO.,LTD

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Jiangsu Province, 224249 PR. China

Phone Number: +86-18252909158

Contact: Huamei Wang

Date of Preparation: Dec.1, 2021

#### **Designated Submission Correspondent**

Mr. Boyle Wang

Shanghai Truthful Information Technology Co., Ltd.

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Tel: +86-21-50313932

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#### 2.0 Device Information

Trade name: Nitrile Examination Gloves
Common name: Patient Examination Gloves

Classification name: Non-powdered patient examination glove

Model(s): S, M, L, XL

#### 3.0 Classification

Production code: LZA

Regulation number: 21CFR880.6250

Classification: Class I

Panel: General Hospital

### 4.0 Predicate Device Information

Manufacturer: Ever Global (Vietnam) Enterprise Corp

Device: Disposable Powder Free Nitrile Examination Glove, White/Blue/

Black/ Pink Color

510(k) number: K171422

#### 5.0 Indication for Use

The Nitrile Examination Glove is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hands or finger to prevent contamination between patient and examiner.

#### 6.0 <u>Device Description</u>

The subject device is a single use, powder free nitrile examination glove. The subject device is black. It can be available in four specifications: S,M,L,XL. The subject device is non-sterile, ambidextrous.

# 7.0 <u>Technological Characteristic Comparison Table</u>

# **Table1-General Comparison**

Table 1-General Companison					
Item	Subject Device	Predicated Device	Remark		
item	(K213843)	(K171422)			
Product Code	LZA	LZA	Same		
Regulation No.	21CFR880.6250	21CFR880.6250	Same		
Class	I	I	Same		
Intended Use / Indications for Use	The Nitrile Examination Glove is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hands or finger to prevent contamination between patient and examiner.	The Nitrile Powder Free patient examination glove is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hands or finger to prevent contamination between patient and examiner.	Same		
Material	Nitrile	Nitrile	Same		
Powdered or Powered free	Powdered free	Powdered free	Same		
Design Feature	Ambidextrous Ambidextrous		Same		
Colorant	Black	White/Blue/ Black/ Pink	Different Analysis 1		
Labeling Information	Single-use indication, powder free, device color, device name, glove size and quantity, Non-Sterile	Single-use indication, powder free, device color, device name, glove size and quantity, Non-Sterile	Same		
Dimensions(mm)	Length: S: ≥220;	Length: XS/S/M/L/XL: ≥230;	Different Analysis 2		

		M/L/XL: ≥230;		Width:		
		Width:		XS: 87±5;		
		S: 80±10;		S: 85±5;		
		M: 95±10;		M: 95±5;		
		L: 110±10;		L: 105±5;		
		XL: 120±10.		XL: 115±5		
	, ,	Finger: ≥0.05;		Finger: ≥0.05;		Same
Thicknes	Thickness(mm)		Palm: ≥0.05		Palm: ≥0.05	
	Б.	Tensile	14MPa,	Tensile	14MPa,	Same
	Befor	Strength	min	Strength	min	
D	е	Ultimate	5000/	Ultimate	5000/	Same
Physical	Aging	Elongation	500% min	Elongation	500% min	
Properti		Tensile	14MPa,	Tensile	14MPa,	Same
es	After	Strength	min	Strength	min	
	Aging	Ultimate	4000/	Ultimate	4000/	Same
		Elongation	400%min	Elongation	400%min	
		Be free from	holes when	Be free from	holes when	Same
Freedon	n from	tested in accordance with ASTMD5151		tested in accordance with ASTMD5151		
Hole	es					
		AQL=2.5		AQL=2.5		
Powder C	Contont	Meet the requirements of		Meet the requirements of		Same
Powder C	ontent	ASTM D6124		ASTM D6124		
		ISO 10993-5	5			/
		Under conditions of the study, device extract is cytotoxic		N.A.		
				IN.A.		
		ISO 10993-10;		ISO 10993-10;		Same
		Under the conditions of		Under the conditions of		
		the study, not an irritant		the study, not an irritant		
Biocompatibility		or a sensitizer		or a sensitizer		
		ISO 10993-1	1;			1
		Under the				
		condition of acute				
		systemic toxicity test,		N.A.		
		the test article did not				
		show acute systemic				
		toxicity in vivo.				

Analysis 1: The subject device (Black) has different color to the predicate device (White/ Blue/ Black/ Pink), but all proposed devices are conducted the biocompatibility test.

Analysis 2: The physical dimensions are different with that of the predicate, but they all meet the requirements of ASTM D6319.

#### 8.0 Summary of Non-clinical Testing

Non-clinical tests were conducted to verify that the proposed device met all design specifications. The test results demonstrated that the proposed device complies with the following standards:

ISO 10993-5:2009 Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity

ISO 10993-10:2010 Biological Evaluation of Medical Devices - Part 10: Tests For Irritation And Skin Sensitization.

ISO 10993-11:2017, Biological evaluation of medical devices - Part 11: Tests for systemic toxicity.

ASTM D6124-06 (Reapproved 2017), Standard Test Method for Residual Powder on Medical Gloves

ASTM D5151-19, Standard Test Method for Detection of Holes in Medical Gloves.

ASTM D6319-19, Standard Specification for Nitrile Examination Gloves for Medical Application.

Table 2 - Summary of non-clinical performance testing

Test	Purpose	Acceptance Criteria	Results
Method			
		Length(mm):	Length(mm):
		S: ≥220;	S:
		M/L/XL: ≥230;	M/L/XL:
		Width(mm):	Width(mm):
ASTM D6319	Physical	S: 80±10;	S: 83-88 /Pass
	Dimensions	M: 95±10;	M: 95-97/ Pass
	Test	L: 110±10;	L: 106-109/ Pass
		XL: 120±10.	XL:111-116/ Pass
		Thickness (mm):	Thickness (mm):
		Finger: ≥0.05	Finger: 0.16-0.18/Pass
		Palm: ≥0.05	Palm: 0.12-0.14/Pass
ASTM	Watertightness	Meet the requirements of ASTM D5151	S: 0/125/Pass
D5151	Test for	AQL 2.5	M: 0/125/Pass
	Detection of		L: 0/125/Pass
	Holes		XL: 0/125/Pass
ASTM	Powder	Meet the requirements of ASTM D6124 <	0.08~0.13mg/Pass;

D6124	Content	2.0mg			
		Before Aging	Tensile Strength	≥14MPa	20.2-33.7 MPa/Pass;
ASTM	Physical		Ultimate Elongation	≥500%	521-569%/Pass;
D412	properties	After Aging	Tensile Strength	≥14MPa	17.9-33.4MPa/Pass;
			Ultimate Elongation	≥400%	470-549%/Pass;
ISO	Cytotoxicity	Non-cytotoxic			Under conditions of
10993-5					the study, device
				extract is cytotoxic.	
ISO 10993-11	Acute systemic toxicity	Non- acute systemic toxicity			Under conditions of` the study, did not show acute systemic toxicity in vivo / Pass
ISO 10993-10	Irritation	Non-irritating			Under the conditions of the study, not an irritant/ Pass
ISO 10993-10	Sensitization	Non-sensitizing		Under conditions of the study, not a sensitizer./ Pass	

# 9.0 Summary of Clinical Testing

Clinical testing is not needed for this device.

# 10.0 <u>Conclusion</u>

The conclusions drawn from the nonclinical tests demonstrate that the subject device Nitrile Examination Gloves is as safe, as effective, and performs as well as or better than the legally marketed predicated device in K171422.