August 13, 2021

Anhui Powerguard Technology Co., Ltd.
% Chu Xiaoan
Official Correspondent
Beijing Easy-Link Company
Rm. F302 Bldg., 41, Jing Cheng Ya Ju, Courtyard 6 of
Southern Dou Ge Zhuang, Chaoyang District
Beijing, 100121
China

Re: K211860
Trade/Device Name: Powder Free Nitrile Patient Examination Gloves, Blue Color
Regulation Number: 21 CFR 880.6250
Regulation Name: Non-Powdered Patient Examination Glove
Regulatory Class: Class I, reserved
Product Code: LZA
Dated: April 16, 2021
Received: June 16, 2021

Dear Chu Xiaoan:

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 https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm 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 Federal Register.

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 https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products); 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 https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance) and CDRH Learn (https://www.fda.gov/training-and-continuing-education/cdrh-learn). 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 (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Clarence W. Murray III, PhD
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

Form Approved: OMB No. 0910-0120
Expiration Date: 06/30/2023
See PRA Statement below.

510(k) Number *(if known)*
K211860

Device Name
Powder Free Nitrile Patient Examination Gloves, Blue Color

Indications for Use *(Describe)*
Powder Free Nitrile Patient Examination Gloves, Blue Color is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hand 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 IF NEEDED.

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

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510(K) Summary

"The assigned 510(k) number is: K211860 "

This summary of 510(k) is being submitted in accordance with 21 CFR 807.

Premarket Notification [510(k)] Summary

1.0 Submitter:

Submitter's name: Anhui Powerguard Technology Co., Ltd.

Submitter's address : Lingbi Economic Development Zone (North), Suzhou City, Anhui Province, 234200, China

Name of contact person: Mr. Nick Dai

Submitter information 0086-557-6868999

Date of preparation : 2021-08-09

2.0 Name of the Device

Proprietary/, Trade name: Powder Free Nitrile Patient Examination Gloves, Blue Color

Common Name: Patient Examination gloves

Classification Name: Non-powdered Patient examination glove

Device Classification: I

Regulation Number: 21 CFR 880.6250

Panel: General Hospital

Product Code: LZA

3.0 Predicate device

Device Name:	Powder Free Nitrile Patient Examination Glove, Blue Color
Company name:	Tangshan Zhonghong Pulin Plastic Co., Ltd.
510(K) Number:	K120970

4.0 Device Description:

The proposed device is Powder Free Nitrile Examination Gloves. The proposed device is blue. The proposed device is non-sterile.

5.0 Indications for Use Statement:

Powder Free Nitrile Patient Examination Gloves, Blue Color is a non-sterile disposable device intended for medical purposes that is worn on the examiner's hand or finger to prevent contamination between patient and examiner.

6.0 Technological Characteristic Comparison:

Features & Description	Predicate Device (K120970)	Subject Device (K211860)	Comparison
Product name	Powder Free Nitrile Patient Examination Glove, Blue Color	Powder Free Nitrile Patient Examination Gloves, Blue Color	Same
Regulation Number	21CFR880.6250	21CFR880.6250	Same
Product Code	LZA	LZA	Same
Color	Blue	Blue	Same
Size	Small/ Medium/ Large/X large	Small/ Medium/ Large/X large	Same
Indications for Use	Powder Free Nitrile Patient Examination Glove, Blue Color is a disposable device intended for medical purposes that is worn on the examiner's hand or finger to prevent contamination between patient and examiner.	Powder Free Nitrile Patient Examination Gloves, Blue Color is a disposable device intended for medical purposes that is worn on the examiner's hand or finger to prevent contamination between patient and examiner.	Same
Device Description and Specifications	Meets ASTM D6319-10	Meets ASTM D6319-10 (Reapproved 2015)	Same
Dimensions --Length ILS-2 AQL4.0	Meets ASTM D6319-10 ≥230mm min	232 mm min for all sizes	Similar
Dimensions -- Width IL S-2 AQL4.0	Meets ASTM D6319-10 Small 70-90 mm Medium 85-105mm Large 100-120mm X large 110-130 mm	Small 75-90 mm Medium 87-102 mm Large 107-119mm X large 114-128 mm	Similar
Dimensions --Thickness IL S-2 AQL4.0	Meets ASTM D6319-10 Finger 0.05mm min. Palm 0.05mm min.	Thickness (mm) min. Finger 0.08 Palm 0.08	Similar
Physical Properties IL S-2 AQL4.0	Meets ASTM DD6319-10 Before aging/after aging Tensile Strength≥ 14MPa Before aging Elongation ≥500% After aging Elongation ≥400%	Aging: Before / After Elongation (%): 560-610 / 460-570 Tensile Strength (MPa): 19-25 / 17-23	Similar
Freedom from Pinholes Inspection Level I AQL2.5	Meets • 21 CFR 800.20 • ASTM D6319-10	1) Inspection LevelI AQL2.5,and Accept/Reject criteria of 10/11 2) Water leakage test:5 noncompliance is allowed.	Similar
Residual Powder	Meets ASTM D 6124-06 (Reaffirmation 2011)	1) Checked on 5pcs sub-samples (N=5). 2) Result as following:	Similar

	below 2mg of residual powder	Mean: 0.1mg/pcs	
Materials used to fabricate the devices	Nitrile	Nitrile	Same
Single Patient Use	Single Patient Use	Single Patient Use	Same
Biocompatibility	Under the conditions of this study, the test article was a non-irritant or non-sensitizer SKIN IRRITATION DERMAL and SENSITIZATION STUDIES Meets ISO 10993-10:2002/Amd.1: 2006	Under the conditions of this study, the test article was a non- irritant or non-sensitizer and non-potential toxicity to L-929 cells. SKIN IRRITATION DERMAL and SENSITIZATION STUDIES Meets ISO 10993-10: Third Edition 2010-08-01. Cytotoxicity study meets ISO 10993-5 Third edition 2009-06-01	Similar
Labeling for the legally marketed device to which substantial equivalence is claimed.	-Powder Free -Patient Examination Glove -Single Use Only - Manufactured For: - Lot -Blue color - Non sterile	-Powder Free -Patient Examination Glove -Single Use Only - Manufactured For: - Lot -Blue color - Non sterile	Same

7.0 Discussion of Non-clinical and Performance 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.

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 D6319-10(Reapproved 2015), Standard Specification for Nitrile Examination Gloves for Medical Application.

Test Methodology	Purpose	Acceptance Criteria		Results
ASTM D 6319-06(Reapproved 2015).	Dimension	Length	≥230mm	
		Width	Small	75-90 mm
			Medium	87-102 mm
			Large	107-119mm
			X large	114-128 mm
		Thickness	Fingertip	≥0.08mm
			Palm	≥0.08mm
ASTM D 6319-06(Reapproved 2015).	Physical Properties	Tensile strength (Before & After aging)	≥14MPa	17-25
		Before aging Elongation	≥500%	560-610
		After aging Elongation	≥400%	460-570
• 21 CFR 800.20 • ASTM D 6319-06(Reapproved 2015). • ASTM D5151-19	Freedom from pinholes	Water leakage test: Inspection Level I, AQL 2.5, and Accept/Reject criteria of 10/11.		5noncompliance is allowed. Pass
• ASTM D6319-10(Reapproved 2015) • ASTM D6124-06 (Reapproved 2017),	Powder Residual	Meets <2mg/glove		Mean: 0.1mg/pcs Pass
Primary Skin Irritation in rabbits ISO 10993-10: 2010-08-01	Biocompatibility	Under the conditions of the study, the subject device is not a primary skin irritant.		Passes
Dermal sensitization in the guinea pig ISO 10993-10: 2010-08-01		Under the conditions of the study, the subject device is not a skin sensitizer.		Passes
The test article was added to L929 cells measured by MTT assay ISO 10993-5: 2009		Under the conditions of this study, the test article was non-cytotoxicity to L-929 cells.		Pass

8.0 Discussion of Clinical and Performance Testing

Clinical testing is not needed for this device.

9.0 Conclusion

The conclusions drawn from the nonclinical tests demonstrate that the proposed device is as safe, as effective, and performs as well as or better than the legally marketed predicated device.