

November 20, 2020

Guangdong Kingfa SCI.&Tech.Co., Ltd.
% Cassie Lee
Manager
Share Info (Guangzhou) Medical Consultant Ltd.
No. 1919-1920, Building D3, Minjie Plaza,
Shuixi Road, Huangpu District
Guangzhou, Guangdong 510700
China

Re: K202139

Trade/Device Name: Medical surgical mask Regulation Number: 21 CFR 878.4040 Regulation Name: Surgical Apparel

Regulatory Class: Class II Product Code: FXX Dated: October 15, 2020 Received: October 22, 2020

Dear Cassie Lee:

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 <u>Federal Register</u>.

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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-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/training-and-continuing-education/cdrh-learn) 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">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,

For CAPT Elizabeth Claverie, M.S.
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: January 31, 2017 See PRA Statement below.

K202139	
Device Name Medical Surgical Mask (Model: KF-B P05(L3))	
Indications for Use (Describe) This product is indicated for infection control practices in the health Surgical Mask is intended to protect both patient and wearer from the particulate material.	
Type of Use (Select one or both, as applicable)	
	Over-The-Counter Use (21 CFR 801 Subpart C)

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.

CONTINUE ON A SEPARATE PAGE IF NEEDED.

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@fda.hhs.gov

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

510(K) Summary

K202139

prepared in accordance with the requirement of 21 CFR 807.92.

1. Submitter's Information

510(k) Owner's Name: GUANGDONG KINGFA SCI. & TECH.CO., LTD.

Establishment Registration Number: 3016785267

Address: NO.28 Delong Avenue, Shijiao Town, Qingcheng District, Qingyuan City, Guangdong Province, China

Post Code: 511500

Contact Person: Yu Xiaoge Tel: +86 13570952157

Fax: +0763-3203108

Email: yuxiaoge@kingfa.com.cn

Application Correspondent:

Contact Person: Ms. Cassie Lee, Share Info (Guangzhou) Medical Consultant Ltd.

Address: No. 1919-1920, Building D3, Minjie Plaza, Shuixi Road, Huangpu District, Guangzhou, China

Tel: +86 20 8266 2446

Email: regulatory@glomed-info.com

Date of preparation: October 15, 2020

2. Subject Device Information

Type of 510(k): Traditional

Classification Name: Mask, Surgical Trade Name: Medical surgical mask

Model Name: KF-B P05(L3)

Review Panel: General Hospital

Product Code: FXX

Regulation Number: 878.4040

Regulatory Class: 2

3. Predicate Device Information

Sponsor: H&H RESEARCH COMPANY
Trade Name: The New Medical Mask
Classification Name: Mask, Surgical

510(K) Number: K093179

Review Panel: General Hospital Product Code: FXX

Regulation Number: 878.4040

Regulation Class: 2

4. Device Description

The Medical surgical mask is a flat style face mask with ear loops and nose clip for fitting around the nose and mouth. The Medical surgical mask has three layers: the inner and outer layers are made of polypropylene nonwoven and the middle layer is made of polypropylene melt-blown. The outer layer is blue, and the colorant material is identified as Pigment Blue K6911D /CAS number: 12239-87-1. The face mask is held in place over the users' nose and mouth by two polyester and spandex elastic bands as ear loops welded to the face mask. The nose clip is made of iron-cored polypropylene, which allows the users to fit the mask around their nose area.

The dimensions of each mask are 175±5 mm in length and 95±2 mm in width. The density of the inner and outer layer is 25 gsm, and the density of the middle layer is 35 gsm. The dimensions of nosepiece are 100±5 mm in length and 3±0.5 mm in width. The ear loop is 175±10 mm in length and 3.5±0.5 mm in width. The Medical surgical mask is sold non-sterile and is intended to be single use, disposable device.

5. Intended Use / Indications for Use

The Medical surgical mask is indicated for infection control practices in the health care facilities. When worn properly, the Medical surgical mask is intended to protect both patient and wearer from the transfer of microorganisms, body fluids and particulate material.

6. Comparison to predicate device and conclusion

Elements of Comparison	Subject Device	Predicate Device	Verdict
Company	GUANGDONG KINGFA SCI.&TECH.CO., LTD.	H&H RESEARCH COMPANY	
510 (k)	K202139	K093179	
Trade Name	Medical surgical mask	The New Medical Mask	
Classification Name	Mask, Surgical	Mask, Surgical	Identical
Classification	Class II Device, FXX (21CFR878.4040)	Class II Device, FXX (21CFR878.4040)	Identical
Intended use/ Indications for Use	industry. When worn properly, The Medical surgical mask is intended to protect both patient and wearer from the	This product is indicated for infection control practices in the health care industry. When worn properly, The New Medical Mask is intended to protect both patient and wearer from	Identical
	transfer of microorganisms, body fluids	the transfer of microorganisms, body	
Material	and particulate material.	fluids and particulate material.	
Outer facing layer	Polypropylene	Polypropylene	Identical
Middle layer	Polypropylene melt-blown	Polypropylene	Similar Note 1
Inner facing layer	Polypropylene	Polypropylene	Identical
Nose clip	Iron core polypropylene strip	Adhesive tape	Different Note 1
Ear Loops	Polyester and spandex elastic bands	Non-latex elastic ear bands	Different Note 1
Design features	Color: blue	Color: blue	Identical
Mask Style	Ear loop flat style	Ear loop flat style	Identical
Specification and Dimension	17.5cm×9.5cm	Length: 7.1 inches (18 cm) Width: 3.9 inches (10 cm)	Similar Note 1

OTC use	Yes	Yes	Identical
Sterility	Non-Sterile	Non-Sterile	Identical
Use	Single Use, Disposable	Single Use, Disposable	Identical
Protection level	Level 3	Level 3	Identical
Fluid Resistance Performance	Pass at 160 mmHg	Pass at 160 mmHg	Identical
Particulate Filtration Efficiency	99.65%	99.9%	Similar Note 2
Bacterial Filtration Efficiency	>99.9%	>99.9%	Identical
Differential Pressure	On average of 3.72 mm H2O/cm ²	Pass at 2.7 mmH2O/cm ²	Similar Note 2
Flammability	Class 1	Class 1	Identical
Latex	Not Made with Natural Rubber Latex	Not Made with Natural Rubber Latex	Identical
Biocompatibili	ty		
Cytotoxicity	Under the conditions of the study, the subject device extract was determined to be non-cytotoxic.	Under the conditions of the study, the subject device extract was determined to be non-cytotoxic.	Identical
Irritation	Under the conditions of the study, the subject device non-polar and polar extracts were determined to be non-irritating.	Under the conditions of the study, the subject device non-polar and polar extracts were determined to be non-irritating.	Identical
Sensitization	Under the conditions of the study, the subject device non-polar and polar extracts were determined to be non-sensitizing.	Under the conditions of the study, the subject device non-polar and polar extracts were determined to be non-sensitizing.	Identical

Note 1:

Although the "Middle layer", "Nose clip", "Ear Loops" and "Specification and Dimension" of subject device is slightly difference with predicate device, it meets the requirement standard ISO 10993. The differences between the predicate device and subject device will not affect the safety and effectiveness of the subject device.

Note 2:

Although the "Particulate Filtration Efficiency" and "Differential Pressure" of subject device is little difference with predicate device, it meets the requirement of essential performance standard ASTM 2100. The differences between the predicate device and subject device will not affect the safety and effectiveness of the subject device.

7. Summary of Non-Clinical Tests Performed

Test Performance	Test method	Pass criteria	Test results /Verdict
Bacterial filtration	ASTM F2101-14 Standard Test Method for	≥ 98%	99.65% / Pass
efficiency	Evaluating the Bacterial Filtration		
	Efficiency (BFE) of Medical Face Mask		
	Materials, Using a Biological Aerosol of		
	Staphylococcus aureus according to ASTM		
	F2100:2019		

Differential pressure	EN 14683: 2019, Annex C Medical face masks -	<6.0 mm	3.72 mm
(Delta-P)	Requirements and test methods according to	H2O/cm ²	H2O/cm ² / Pass
	ASTM F2100:2019		
Sub-micron	ASTM F2299-03 Standard Test Method for	≥ 98%	99.9% / Pass
particulate filtration	Determining the Initial Efficiency of Materials		
efficiency at 0.1 μm of	Used in Medical Face Masks to Penetration by		
Polystyrene Latex	Particulates Using Latex Spheres according to		
Spheres	ASTM F2100:2019		
Resistance to penetration	ASTM F1862/F1862M-17 Standard Test	Fluid	Fluid Resistant
by synthetic blood,	Method for Resistance of Medical Face Masks	resistant	claimed at 160 mm
minimum pressure in mm	to Penetration by Synthetic Blood (Horizontal	claimed at	Hg / Pass
Hg for pass result	Projection of Fixed Volume at a Known	160 mm Hg	
	Velocity) according to ASTM F2100:2019		
Flame spread	16 CFR Part 1610 Standard for the	Class 1	Class 1 / Pass
	Flammability of Clothing according to ASTM		
	F2100:2019		

8. Summary of Clinical Tests Performed

Not applicable.

9. Conclusion

The conclusion drawn from the nonclinical tests demonstrates that the subject device in 510(K) submission K202139, the Medical surgical mask is as safe, as effective, and performs as well as or better than the legally marketed predicate device cleared under K093179.