March 4, 2021

U-Play Products Corporation
% Ivy Wang
Technical Manager
Shanghai Sungo Management Consulting Company Limited
13th Floor, 1500# Central Avenue
Shanghai, Shanghai 200122
China

Re: K202137
Trade/Device Name: Disposable medical mask
Regulation Number: 21 CFR 878.4040
Regulation Name: Surgical Apparel
Regulatory Class: Class II
Product Code: FXX
Dated: February 1, 2021
Received: February 9, 2021

Dear Ivy 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 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.

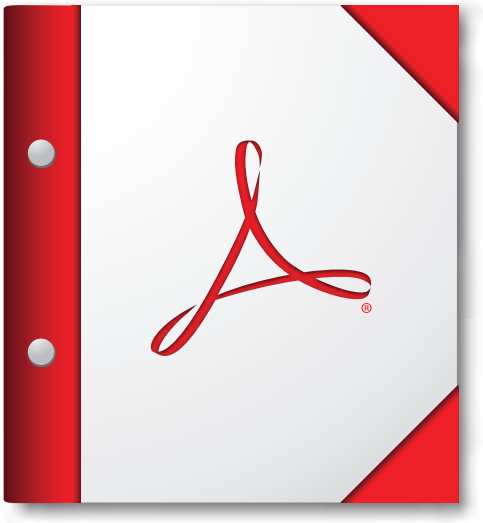
Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems.

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,

For Ryan Ortega, PhD
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



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510(K) Summary

K202137

Date of preparation: 2021-03-04

A. Applicant:

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B. Device:

Trade Name: DISPOSABLE MEDICAL MASK
Common Name: MEDICAL FACE MASK
Model: Y01, Y02

Regulatory Information
Classification Name: Surgical Face Mask
Classification: Class II
Product code: FXX
Regulation Number: 878.4040
Review Panel: Surgical Apparel

C. Predicate device:

K110455
Kimberly-Clark KC100 Mask
Kimberly-Clark

D. Intended use of the device:

Disposable Medical Masks are intended to be worn to protect both the patient and healthcare

personnel from transfer of microorganisms, body fluids and particulate material. These face masks are intended for use in infection control practices to reduce the potential exposure to blood and body fluids. This is a single use, disposable device(s), provided non-sterile.

E. Device Description:

Disposable Medical Masks are single use, three-layer, flat –folded masks with ear loops and nose clip.

The Disposable Medical Masks are manufactured with three layers, the inner and outer layers are made of spun-bond polypropylene, and the middle layer is made of melt blown polypropylene filter. The ear loops are held in place over the users' mouth and nose which are welded to the facemask. There are two types of ear loops for the disposable medical masks, one shaped in thin rope is made of Nylon and spandex, and the other shaped in narrow band is made of spun-bond polypropylene and elastic body. The ear loops are not made with natural rubber latex.

The nose clip in the layers of facemask is to allow the user to fit the facemask around their nose, which is made of malleable polypropylene coating with iron wire.

The medical masks will be provided in blue. The medical masks are sold non-sterile and are intended to be single use, disposable devices.

F. Comparison with predicate device

Table 1 General Comparison

Device	**Proposed Device**	**Predicate Device**	**Result**
Manufacturer	U-Play Products Corporation	Kimberly-Clark	-
510K number	K202137	K110455	-
Model Name	DISPOSABLE MEDICAL MASK	Kimberly-Clark KC100 Mask	Similar
Classification	Class II Device, FXX (21 CFR878.4040)	Class II Device, FXX (21 CFR878.4040)	Same
Intend use	Disposable Medical Masks are intended to be worn to protect both the patient and healthcare personnel from transfer of microorganisms, body fluids and particulate material. These face masks are intended for use in infection control practices to reduce the potential exposure to blood and body fluids. This is a single use, disposable device(s), provided non-sterile.	The Kimberly-Clark KC100 Procedure Mask(s) is intended to be worn to protect both the patient and healthcare personnel from transfer of microorganisms, body fluids and particulate material. These face masks are intended for use in infection control practices to reduce the potential exposure to blood and body fluids. The Kimberly-Clark KC100 Procedure Mask(s) is a single use, disposable devices, provided non-sterile.	Same
Design Features	Ear Loops, Flat Pleated, 3 layers	Ear Loops, Tie-On, Flat Pleated, 3 layers	Similar
Material			
Outer facing	Spun-bond polypropylene	Spun-bond polypropylene	Same

layer			
Middle layer	Melt blown polypropylene filter	Melt blown polypropylene filter	Same
Inner facing layer	Spun-bond polypropylene	Spun-bond polypropylene	Same
Nose clip	Polypropylene + steel wire	NA	Different*
Ear loops	Nylon and Spandex; elastic nonwoven fabrics (spun-bond polypropylene and elastic body)	Polyester/ lycra knitted	Different*
Color	Blue	Variety (include blue)	Similar
Dimension (Length)	175±10mm	165±19mm	Similar
Dimension (Width)	95±10mm	102 ± 19mm	Similar
OTC use	Yes	Yes	Same
Sterility	Non-Sterile	Non-Sterile	Same
Use	Single Use, Disposable	Single Use, Disposable	Same
ASTM F2100 Level	Level 1	Level 1	Same
Fluid Resistance Performance ASTM F1862	32 out of 32 pass at 80 mmHg, 3 lots	Meet the requirements	Similar
Particulate Filtration Efficiency ASTM F2299	99.12%, 99.45%, 99.56%	Meet the requirements	Similar
Bacterial Filtration Efficiency ASTM F2101	99.92%, 99.93%, 99.92%	Meet the requirements	Similar
Differential Pressure (Delta P) EN 14683 Annex C	3.0mmH_2O/cm^2, 4.2mmH_2O/cm^2, 3.7mmH_2O/cm^2	Meet the requirements	Similar
Flammability 16 CFR 1610	Class 1	Meet the requirements	Similar
Biocompatibility	ISO10993	ISO10993	Same
Cytotoxicity	Under the conditions of the study, the device is non-cytotoxic.	Meet the requirements	Similar
Irritation	Under the conditions of the study, the device is non-irritating.	Meet the requirements	Similar
Sensitization	Under the conditions of the	Meet the requirements	Similar

	study, the device is non-sensitizing		

Different*:

The proposed device has different material of nose clamp and ear loop to the predicate device, but the material has been tested and the test results shown that the material differences do not affect the safety of the proposed device

G. Non-Clinical Test Conclusion

Non-clinical tests were conducted to verify that the proposed device met all design specifications as same or similar to the predicate device. The test results demonstrated that the proposed device complies with the following standards and the requirements stated in the Guidance for Industry and FDA Staff: Surgical Masks – Premarket Notification [510(k)] Submission issued on March 5, 2004:

- 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 F2100, Standard Specification for Performance of Materials Used In Medical Face Masks
- ASTM F1862, Standard Test Method for Resistance of Medical Face Masks To Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume At A Known Velocity);
- EN 14683, Medical Face Masks—Requirements and Test Methods;
- ASTM F2101, Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) Of Medical Face Mask Materials, Using A Biological Aerosol of Staphylococcus Aureus;
- ASTM F2299, Standard test method for determining the initial efficiency of materials used in medical face masks to penetration by particulates using latex spheres;
- 16 CFR 1610, Standard for the Flammability of clothing textiles;

Table 2 - Performance Testing

Item	**Proposed device (3 lots)**	**Acceptance Criteria (level 1)**	**Result**
Fluid Resistance Performance ASTM F1862	32 out of 32 pass at 80 mmHg	29 out of 32 pass at 80 mmHg	PASS
Particulate Filtration Efficiency ASTM F2299	99.12%, 99.45%, 99.56%	≥ 95%	PASS
Bacterial Filtration Efficiency ASTM F2101	99.92%, 99.93%, 99.92%	≥ 95%	PASS
Differential Pressure (Delta P) EN 14683 Annex C	3.0mmH_2O/cm^2, 4.2mmH_2O/cm^2, 3.7mmH_2O/cm^2	< 5.0mmH_2O/cm^2	PASS
Flammability 16 CFR 1610	Class 1	Class 1	PASS

Table 3 Biocompatibility Comparison

Item	Proposed device	Acceptance Criteria	Result
Cytotoxicity	Under the conditions of the study, the device is non-cytotoxic.	Non-Cytotoxic	PASS
Irritation	Under the conditions of the study, the device is non-irritating.	Non-Irritating	PASS
Sensitization	Under the conditions of the study, the device is non-sensitizing	Non-Sensitizing	PASS

H. Clinical Test Conclusion

No clinical study is included in this submission.

I. Conclusion

Based on the nonclinical tests performed, the subject device is as safe, as effective, and performs as well as the legally marketed predicate device, Kimberly-Clark KC100 Mask cleared under K110455.