

October 13, 2020

BioFilm, Inc. Richard Hines Regulatory Affairs Manager 3225 Executive Ridge Vista, CA 92081

Re: K200114

Trade/Device Name: Astroglide® Organix® Liquid

Regulation Number: 21 CFR§ 884.5300

Regulation Name: Condom

Regulatory Class: II Product Code: NUC

Dated: September 10, 2020 Received: September 11, 2020

Dear Richard Hines:

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>.

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.

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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/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">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,

Monica D. Garcia, Ph.D.
Assistant Director
DHT3B: Division of Reproductive,
Gynecology and Urology Devices
OHT3: Office of GastroRenal, ObGyn,
General Hospital and Urology 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: 06/30/2020

See PRA Statement below.

K200114					
Device Name Astroglide® Organix® Liquid					
Indications for Use (Describe) Astroglide® Organix® Liquid is a personal lubricant for penile and/or vaginal application, intended to moisturize and lubricate, to enhance the ease and comfort of intimate sexual activity and supplement the body's natural lubrication. This product is compatible with natural rubber latex and polyisoprene condoms. The product is not compatible with polyurethane condoms.					
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.

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

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"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 K200114 Astroglide[®] Organix[®] Liquid

I. Submitter Information

Applicant: BioFilm, Inc.

Address: 3225 Executive Ridge

Vista, CA 92081 USA

Telephone: 760-727-9030 **Fax:** 760-727-8080

Contact Person: Richard Hines

Contact Title: Regulatory Affairs Manager

Email: richard@biofilm.com

Date Prepared: October 9, 2020

II. Device Information

Trade Name: Astroglide[®] Organix[®] Liquid

Common Name: Personal Lubricant Regulation Number: 21 CFR 884.5300

Regulation Name: Condom

Product Code: NUC (Lubricant, Personal)

Regulatory Class:

III. Predicate Device

Predicate Device	510(k) Number	
Astroglide [®] Natural Applicant: BioFilm Inc.	K141581	

The predicate device has not been subject to a device-related recall.

IV. Description of Device

Astroglide[®] Organix[®] Liquid is a non-sterile, colorless to slight yellow, water-based personal lubricant intended for penile and vaginal application to moisturize and lubricate, to enhance the ease and comfort of intimate sexual activity and supplement the body's natural lubrication. This product is compatible with natural rubber latex and polyisoprene condoms and is not compatible with polyurethane condoms. This product is for over-the-counter (OTC) use.

Astroglide[®] Organix[®] Liquid's formulation consists of water, glycerin, xanthan gum, aloe barbabensis powder, chamomilla recutita (matricaria) flower extract, calendula officinalis flower extract, vaccinium macrocarpon (cranberry) fruit extract, passiflora incarnata flower extract, sodium benzoate, potassium sorbate, and citric acid. It is packaged in 2.5 oz polyethylene terephthalate bottles with a polypropylene flip-top cap. Bottles are secondarily packaged in cardboard cartons. This product is also provided in 2.5 ml foil packs.

Device specifications are listed in the table below:

Parameter	Specification
Appearance	Hazy liquid
Color	Colorless to slightly yellow
Odor	Odorless
pH (per USP<791>)	3.5-5.5
Osmolality (per USP<785>)	500-800 mOsm/kg (1:5 dilution)
Viscosity (per USP<912>)	250-310 cps
Total aerobic microbial count (per USP<61>)	<100 cfu/g
Total yeast/mold count (per USP<61>)	<10 cfu/g
Antimicrobial effectiveness (per USP<51)	Category 2, bacteria should show not less than 2.0 log reduction at 14 days and no increase from 14-day count at the 28-day count. Yeast and molds should show no increase from the initial calculated count at 14 and 28 days
Absence of pathogenic organisms (Staphylococcus aureus, Pseudomonas aeruginosa, and Candida albicans – per USP<62>)	Absent

V. Indications for Use

Astroglide[®] Organix[®] Liquid is a personal lubricant for penile and/or vaginal application, intended to moisturize and lubricate, to enhance the ease and comfort of intimate sexual activity and supplement the body's natural lubrication. This product is compatible with natural rubber latex and polyisoprene condoms. This product is not compatible with polyurethane condoms.

VI. Summary of Intended Use and Technological Characteristics of the Subject Device in Comparison to the Predicate Device

The following table compares the Intended Use and technological characteristics of the subject and predicate device:

Characteristic / Feature	Astroglide [®] Organix [®] Liquid K200114	Astroglide [®] Natural - K141581 Predicate Device)	Comparison
Indication for use	Astroglide® Organix® Liquid is a personal lubricant for penile and/or vaginal application, intended to moisturize and lubricate, to enhance the ease and comfort of intimate sexual activity and supplement the body's natural lubrication. This product is compatible with natural rubber latex and polyisoprene condoms. This product is not compatible with polyurethane condoms.	lubricate, to enhance the ease and comfort of intimate sexual activity and supplement the body's natural lubrication. This product is only compatible with natural rubber latex and	Same: The indications for use are the same, with the exception that the subject indications for use specifically states that it is not compatible with polyurethane condoms. Therefore, the subject and predicate devices have the same intended use (provides lubrication during intimate sexual activity).
Water-Based Lubricant	Yes	Yes	Same
Over the Counter	Yes	Yes	Same
Primary Ingredients	Water, Glycerin, Xanthan Gum, Aloe Barbabensis Powder, Chamomilla Recutita (Matricaria) Flower Extract, Calendula Officinalis Flower Extract, Vaccinium Macrocarpon (Cranberry) Fruit Extract, Passiflora Incarnata Flower Extract, Sodium Benzoate, Potassium Sorbate, Citric Acid	Water, Xylitol, Hydroxyethylcellulose, Phenoxyethanol, Aloe Barbadensis Leaf Juice Extract, Chamomilla Recutita (Matricaria) Flower Extract, Pectin, Potassium Ascorbyl Tocopheryl Phosphate, Lactic Acid	Different: The subject and predicate device have differences in formulation. These differences do not raise different questions of safety and effectiveness (S&E).
Non-sterile	Yes	Yes	Same
Odorless Viscosity	Yes 250-310 cps	Yes 2200-3400 cps	Different: The viscosity is lower for the subject device. This difference does not raise different questions of S&E.
рН	3.5-5.5	4.0-7.0	Different: The subject device has a lower pH than the predicate. This difference does not raise different questions of S&E.
Osmolality	500-800 mOsm/kg (1:5 dilution)	769 mOsm/kg	Different : The osmolality specification

			for the subject device is different than the predicate device. Differences in osmolality specifications do not raise different questions of S&E.
Microbial Limits	 Total mold/yeast count <10 cfu/g Total aerobic microbial count <100 cfu/g Absence of pathogenic organisms (Candida albicans, Pseudomonas aeruginosa, Staphylococcus aureus) 	 Total mold/yeast count <10 cfu/mL Total aerobic microbial count <100 cfu/ml Absence of pathogenic organisms (Candida albicans, Pseudomonas aeruginosa, Staphylococcus aureus) 	Same
Antimicrobial Effectiveness Testing (USP<51> Category 2)	Yes	Yes	Same
Condom Compatibility	Compatible with natural rubber latex and polyisoprene condoms only.	Compatible with natural rubber latex and polyisoprene condoms only.	Same
Packaging	PETE bottle and foil	PETE bottle	Different: Both devices are packaged in PETE bottles. The subject device is also packaged in a foil pack. These differences do not raise different questions of S&E.
Shelf-Life	Bottles: 17 months Foils: nine months	Three years	Different: The subject devices have a shorter shelf-life than the predicate device. This difference does not raise different questions of S&E

The subject and predicate device indications for use are not identical, as the predicate device indications for use does not specifically state that it is not compatible with polyurethane condoms. However, the intended use of the subject and predicate devices is the same (i.e., provides lubrication during intimate sexual activity).

In addition, the subject and predicate devices have different technological characteristics as shown in the table above. The differences in technological characteristics between the subject and predicate devices do not raise different questions of safety and effectiveness.

VII. Summary of Non-Clinical Performance Testing

Biocompatibility

Astroglide[®] Organix[®] Liquid has undergone biocompatibility testing in accordance with the 2020 FDA guidance document "Use of International Standard ISO 10993-1, Biological Evaluation of Medical Devices – Part 1: Evaluation and testing within a risk management process." Testing included:

- Cytotoxicity per ISO 10993-5: 2009
- Sensitization and Irritation testing using the human repeat insult patch testing, an alternative test method to ISO 10993-10:2010
- Acute systemic toxicity testing per ISO 10993-11:2017.

The testing demonstrated that Astroglide[®] Organix[®] Liquid is non-cytotoxic, non-sensitizing, non-irritating, and not acutely-systemically toxic.

Condom Compatibility

Astroglide[®] Organix[®] Liquid was tested in accordance with ASTM D7661-10 "Standard Test Method for Determining Compatibility of Personal Lubricants with Natural Rubber Latex Condoms." Results showed that Astroglide[®] Organix[®] Liquid is compatible with natural rubber latex and polyisoprene condoms. Astroglide[®] Organix[®] Liquid is not compatible with polyurethane condoms.

Shelf life

Astroglide[®] Organix[®] Liquid has a shelf-life of 17 months in 2.5 oz bottles and 9 months in foils packs. Results from testing demonstrated that the device can maintain its specifications (as shown in Section IV) over the duration of its shelf-life in both packaging forms.

VIII. Substantial Equivalence

The results of the performance testing described above demonstrate that Astroglide[®] Organix[®] Liquid is as safe and effective as the predicate device and supports a determination of substantial equivalence.