

May 26, 2022

BioFilm, Inc. Kevin Jamil Regulatory Affairs 3225 Executive Ridge Vista, CA 92081

Re: K220355

Trade/Device Name: Astroglide Ultra Gentle Gel

Regulation Number: 21 CFR§ 884.5300

Regulation Name: Condom

Regulatory Class: II Product Code: NUC Dated: April 7, 2022 Received: April 27, 2022

Dear Kevin Jamil:

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: 06/30/2023

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

K220355				
Device Name				
Astroglide Ultra Gentle Gel				
Indications for Use (Describe) Astroglide Ultra Gentle Gel is a personal lubricant for penile, v lubricate, to enhance the ease and comfort of intimate sexual ac product is compatible with natural rubber latex and polyisoprer polyurethane condoms.	ctivity and supplement the body's natural lubrication. This			
To a file (October and the constitution)				
Type of Use (Select one or both, as applicable)	N			
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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510(K) Summary – K220355 Astroglide Ultra Gentle Gel

I. General Information on Submitter

Applicant: BioFilm, Inc.

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 760-727-8080

 Contact Person:
 Kevin Jamil

Contact Title: Regulatory Affairs

Email: kevin@biofilm.com
Date Prepared: May 24, 2022

II. General Information on Device

Proprietary Name: Astroglide Ultra Gentle Gel

Common Name: Personal Lubricant

Regulation Name: Condom

Regulation Number: 21 CFR 884.5300

Regulatory Class:

Product Code: NUC (Lubricant, Personal)

III. Predicate Device

Predicate Device	510(k) Number
Glycerin & Paraben Free Astroglide	K072647

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

IV. Description of Device

Astroglide Ultra Gentle Gel is a non-sterile, clear, odorless, and water based personal lubricant. This product is not a spermicide or contraceptive. It is compatible with natural rubber latex and polyisoprene condoms. This product is not compatible with polyurethane condoms. The device is composed of water, propylene glycol, hydroxyethylcellulose, polyquaternium 7, potassium sorbate, sodium benzoate and citric acid.

The product primary packaging is a white LDPE 3-ounce tube with a screw on cap. The tube and cap constitute the device final packaging.

The specifications for Astroglide Ultra Gentle Gel Personal Lubricant are described in **Table 1**.

Table 1. Device Specifications

Parameter	Specification (Test Method)
Color	Clear to golden
Clarity	Clear
Odor	Odorless
Absence of particulate matter	No particles
Viscosity	10,000-25,000 cP
pH	3.5-5.5
Osmolality	200-300 mOsm/kg, 1:5 dilution factor
Total yeast/mold count (TYMC)	<10 cfu/mL (USP <61>)
Total aerobic microbial count (TAMC)	<100 cfu/mL (USP <61>)
Presence of Pathogenic Organisms (Staphylococcus aureus, Pseudomonas aeruginosa, and Candida albicans)	Absent (USP <62>)
Antimicrobial effectiveness	Meets USP <51> acceptance criteria for Category 2 products.

V. Indications for Use

Astroglide Ultra Gentle Gel is a personal lubricant for penile, vaginal, and/or anal 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. Substantial Equivalence Discussion

The following table compares the intended use and key technological characteristics of the subject and predicate device:

	Characteristic / Feature	Astroglide Ultra Gentle Gel Personal Lubricant (subject device)	Glycerin & Paraben Free Astroglide (predicate device) – K072647	Comparison	
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Indication for use	Astroglide Ultra Gentle Gel is a personal lubricant for penile, vaginal, and/or anal 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.	Astroglide is a personal	compatibility statement, and
Water-Based Lubricant	Yes	Yes	Same
Over the Counter	Yes	Yes	Same
Not a contraceptive or Spermicide	Yes	Yes	Same
Non-sterile	Yes	Yes	Same
Primary Ingredients	Water, Propylene glycol, Hydroxyethylcellulose, Polyquaternium 7, Potassium sorbate, Sodium benzoate, Citric Acid	Not publicly available	Different: The ingredients of the predicate device are different; the ingredients do not raise different questions of Safety & Effectiveness (S & E)
Microbial Limits	Total mold/yeast count <10 cfu/mL Total aerobic microbial count <100 cfu/mL Absence of pathogens (Candida albicans, Pseudomonas aeruginosa, Staphylococcus aureus)	Not publicly available	N/A
Viscosity	10,000 – 25,000 cP	Not publicly available	N/A
Osmolality	200-300 mOsm/kg, 1:5 dilution factor	Not publicly available	N/A
рН	3.5-5.5	Not publicly available	N/A

The subject and predicate devices have similar indications for use and have the same intended use – to provide lubrication during intimate sexual activity. The subject and predicate devices have different technological characteristics, including different formulations and device specifications. The different technological characteristics do not raise different types of safety and effectiveness questions.

VII. Summary of Non-Clinical Performance Testing

Biocompatibility

Biocompatibility testing on the subject lubricant was performed 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"* and ISO 10993-1:2009 as follows:

- Cytotoxicity (per ISO 10993-5:2009/(R)2014)
- Human Repeat Insult Patch Testing (HRIPT) per ASTM D6355 to address sensitization and irritation
- Systemic Toxicity (per ISO 10993-11:2017)

The results of this testing demonstrate that the subject lubricant is non-cytotoxic, non-irritating, non-sensitizing, and not systemically toxic.

Shelf Life

The subject device is a non-sterile personal lubricant packaged in a 3 oz. bottle with a 24-month shelf-life in accordance with the results of an accelerated aging study, conducted for 8 months at 40°C per ASTM F1980-16, *Standard Guide for Accelerated Aging of Sterile Barrier Systems for Medical Devices*. The device specifications listed in **Table 1** were tested across the device shelf-life and the subject device met the specifications at all time points.

Condom Compatibility

Astroglide Ultra Gentle Gel Personal Lubricant was tested for compatibility with natural rubber latex, polyisoprene, and polyurethane condoms using ASTM D7661-18, Standard Test Method for Determining Compatibility of Personal Lubricants with Natural Rubber Latex Condoms. The results show that Astroglide Ultra Gentle Gel Personal Lubricant is compatible with natural rubber latex and polyisoprene condoms. Astroglide Ultra Gentle Gel Personal Lubricant is not compatible with polyurethane condoms.

VIII. Conclusion

The results of the testing described above demonstrate that the Astroglide Ultra Gentle Gel Personal Lubricant is as safe and effective as the predicate device and supports a determination of substantial equivalence.