



BIODEGRADABLE GLITTER - GOLD

Product Information Sheet

Biodegradable Cosmetic Glitter consists of precision cut highly reflective specialised regenerated cellulose film that is proven to biodegrade very well in natural environments. It is available in a wide range of colours and sizes. It is suited to dry, water-based and oil-based applications and complies with the cosmetic regulations of all major regions.

ECOLOGICAL CREDENTIALS	
Biodegradability	<p>Biodegrades well in natural environment ISO 14851 test - 87% biodegradation in 28 days OECD 301F Test - Readily Biodegradable, 93% biodegradation in 28 days</p>
Environmental Safety	<p>Complies with environmental safety criteria as per OK biodegradable WATER standard. <i>(Ecotoxicity in aquatic environments is part of the OK biodegradable WATER certification process)</i></p>

Weight	INCI Name	Alternative Name	CAS No.	EC No.	CI No.	Origin
72.0%	Rayon	Cellulose Regenerated	68442-85-3	270-493-7	N/A	V
11.0%	Glycerin		56-81-5	200-289-5	N/A	V
6.0%	Aqua		7732-18-5	231-791-2	N/A	MI
3.0%	Urea		57-13-6	200-315-5	N/A	MS
c.7.4%	Styrene/Acrylates Copolymer		9010-92-8	618-461-7	N/A	MS
c.0.5%	CI 19140	FD&C Yellow No.5 Al. Lake	12225-21-7	235-428-9	19140:1	MS
max. 0.1%	CI 77000	Aluminium	7429-90-5	231-072-3	77000	MS

V – Vegetable, MI – Mineral, MS – Mineral Synthetic



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Cosmetic Regulations Compliance

Product Code	Product Description	Cosmetic Approval						Natural Origin* Content	Size (xxx of product code)						
		EU	USA	CHN	JPN	CAN	AUS		KOR	004 (100µm)	006 (150µm)	008 (200µm)	015 (375µm)	040 (1mm)	094 (2.4mm)
8303/xxxH.FDA	Biodegradable Gold	●	●	●	●	●	●	●	89.1%	✓	✓	✓	✓	✓	✓

● - FDA cosmetic regulations NOT suitable for use on lips (lipstick and lip gloss). Contains aluminium.

*Natural Origin Index calculated using ISO 16128 method

Notes:

EU, Europe – European Cosmetic Regulation 1223/2009

USA - FDA Code of Federal Regulations (CFR) Title 21

CHN, China – Safety and Technical Standards for Cosmetics (2015)

JPN, Japan – Ministry of Health, Labor and Welfare Ordinance No.126 of July 29, 2003. QD (JSQI) regulation NOT applicable.

CAN, Canada – Cosmetic Regulations under Food and Drug Act

AUS, Australia – Industrial Chemicals (Notification & Assessment) Act 1998 and Cosmetic Standards 2007

KOR, Korea – Korean Cosmetic Products Act (KPCA), 2000

Properties	Specific Gravity	Temperature Stability
Value	c.1.45	< 50°C*

*Biodegradable Glitter may withstand temperatures higher than 50°C for short time periods – please test.

Microbiological Testing	Bacteria	Moulds
Total Viable Count (TVC)	< 100	< 100

Heavy Metals	As	Sb	Pb	Cd	Hg	Ni	Cr	Co	Mo	Cu	Se	Zn	Sn	F
Total mg/kg (ppm)	< 0.5	< 0.5	< 2	< 0.1	< 0.1	< 5	< 1	< 5	< 5	< 5	< 5	< 5	< 5	< 5

Test Method: Total content by ICP-OES/ICP-MS/IC



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Product Compatibility

Product Code	Product Description	Chemical														Heat		
		Water	Alkali (pH9)	Acid (pH4)	Carbomer (0.5%)	Ethanol	Glycol	Ethyl Acetate	Acetone	Methyl Ethyl Ketone	Isododecane	Silicone Oil	Mineral Oil	Coconut Oil	Olive Oil	Palm Oil (RSPO)	Up to 50°C	
8303/xxxH.FDA	Biodegradable Glitter - Gold	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

- - Compatible with good resistance
- - Test - Compatible with possibility to bleed in some conditions. Excess heat may cause dulling of the glitter
- - Not compatible

Given the many possible uses and formulations incorporating glitters, it is the responsibility of the formulator to test performance in both formulation and application before final use.

Shelf Life – Biodegradable Glitter in natural state (as supplied) has an indefinite shelf life. Providing that it is stored in a dry, dark, cool environment, out of direct sunlight, any direct heat source and not exposed to microorganisms. However, for good manufacturing practice, we would recommend using the product within 3 years to ensure optimum condition.