

BIODEGRADABLE GLITTER - SILVER

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

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	МІ
3.0%	Urea		57-13-6	200-315-5	N/A	MS
7.9%	Styrene/Acrylates Copolymer		9010-92-8	618-461-7	N/A	MS
max. 0.1%	CI 77000	Aluminium	7429-90-5	231-072-3	77000	MS

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



Cosmetic Regulations Compliance

Product	Product Description	Cosi							Natural Origin*	Size (xxx of product code)								
Code	Troduct Description	EU	USA	CHN	Ndf	CAN	AUS	KOR	Content	004 (100μm)	004 006 008 03 (100µm) (150µm) (200µm) (375			040 (1mm)	094 (2.4mm)			
8301/xxxH.FDA	Biodegradable Silver	•	L	•	•	•	•	•	89.1%	✓	✓	✓	✓	✓	✓			

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

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*

 $^{{\}rm *Biodegradable~Glitter~may~with stand~temperatures~higher~than~50^{\circ}C~for~short~time~periods~-~please~test.}$

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

Heavy Metals	As	Sb	Pb	Cd	Hg	Ni	Cr	Со	Мо	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

^{*}Natural Origin Index calculated using ISO 16128 method



Product Compatibility

			Chemical								Heat						
Product Code	Product Description	Water	Alkali (pH9)	Acid (pH4)	Carbomer (0.5%)		Glycol	Ethyl Acetate	Acetone	Methyl Ethyl Ketone	Isododecane	Silicone Oil	Mineral Oil	Coconut Oil		Palm Oil (RSPO)	Up to 50°C
8301/xxxH.FDA	Biodegradable Glitter - Silver	•		•				•	•	•	•	•	•		•	•	

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.