

RADGLO[®]

DERMAGLO[™] DGS SERIES

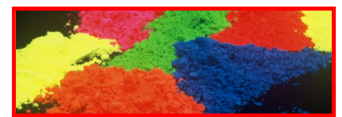
COSMETIC COLORANTS

08/06/2016

Colorants for water, oil and solvent based systems

Product description

Dermaglo[™] DGS colorants are designed for use in challenging formulations in water, oil and solvent based systems. The Dermaglo DGS pigments are thermoset pigments. These pigments can be processed at temperature up to 90°C. Depending on the application, Dermaglo DGS might be used at higher temperature but this has to be tested thoroughly in the end application. The Dermaglo DGS products employ a revolutionary new thermosetting polymer component that is resistant to solvents commonly employed in nail enamels and hair sprays.



Available colors

- DGS-00: Fluorescent Illuminator
- DGS-11: Aurora Pink
- DGS-13EC: Rocket Red
- DGS-13US: Rocket Red
- DGS-15EC: Blaze Orange
- DGS-15US: Blaze Orange
- DGS-17: Saturn Yellow ⁽¹⁾
- DGS-19: Horizon Blue
- DGS-20: Purple ⁽¹⁾
- DGS-21: Corona Magenta
- DGS-531EC: G/S Yellow
- DGS-531US: G/S Yellow

(G/S= Green Shade)

(1): Non fluorescent colors

(Not UV/Blacklight responsive)

US: Allowed on the American market

EU: Allowed on the European market

INCI Name

Bis (Glycidoxyphenyl) propane/bisaminomethylnorbornane copolymer, aluminium hydroxide, D&C colorant(s).



Physical properties

- Product form: powder
- Density: 1.1 g/ml
- Bulking value: 0.25 g/ml
- Average particle size: 2.5 µm (Mean average)
- Oil absorption: 38

Field of applications

Sales Code	Color	INCI name	CAS N°	C.I. Number	%	Poly- mer (2) %
DGS-00	Fluorescent Illuminator	Fluorescent Brightener 230	27344-06-5	-	4.38	94.83
		Aluminium hydroxide	21645-51-2	-	0.79	
DGS-11	Aurora Pink	D&C Red 22	17372-87-1	C.I. 45380	1.16	97.17
		D&C Red 28	18472-87-2	C.I. 45410	0.09	
		Aluminium hydroxide	21645-51-2	-	1.58	
DGS-13EC	Rocket Red	D&C Yellow 10 (E104)	8004-92-0	C.I. 47005	0.26	96.74
		D&C Red 22	17372-87-1	C.I. 45380	0.63	
		D&C Red 28	18472-87-2	C.I. 45410	0.79	
		Aluminium hydroxide	21645-51-2	-	1.58	
DGS-13US	Rocket Red	D&C Yellow 10 (FDA)	8004-92-0	C.I. 47005	0.26	96.74
		D&C Red 22	17372-87-1	C.I. 45380	0.63	
		D&C Red 28	18472-87-2	C.I. 45410	0.79	
		Aluminium hydroxide	21645-51-2	-	1.58	
DGS-15EC	Blaze Orange	D&C Yellow 10 (E104)	8004-92-0	C.I. 47005	0.63	96.59
		D&C Red 22	17372-87-1	C.I. 45380	0.90	
		D&C Red 28	18472-87-2	C.I. 45410	0.11	
		Aluminium hydroxide	21645-51-2	-	1.77	
DGS-15US	Blaze Orange	D&C Yellow 10 (FDA)	8004-92-0	C.I. 47005	0.63	96.59
		D&C Red 22	17372-87-1	C.I. 45380	0.90	
		D&C Red 28	18472-87-2	C.I. 45410	0.11	
		Aluminium hydroxide	21645-51-2	-	1.77	
DGS-17	Saturn Yellow (1)	D&C Yellow 11	8003-22-3	C.I.4700	3.69	94.34
		Aluminium hydroxide	21645-51-2	-	1.97	
DGS-531EC	G/S Yellow	Yellow 10 (E104)	8004-92-0	C.I. 47005	1.19	97.23
		Aluminium hydroxide	21645-51-2	-	1.58	
DGS-531US	G/S Yellow	Yellow 10 (FDA)	8004-92-0	C.I. 47005	1.19	97.23
		Aluminium hydroxide	21645-51-2	-	1.58	
DGS-19	Horizon Blue	Ultramarine Blue	57455-37-5	C.I. 77007	23.20	72.63
		Fluorescent Brightener 184 [Bis(t-butyl benzoxazolyl) thiophene]	7128-64-5	-	0.95	
		Shellac	9000-59-3	-	3.22	
DGS-20	Purple (1)	D&C Violet 2 EXT	4430-18-6	C.I. 60730	0.43	95.48
		D&C Red 28	18472-87-2	C.I. 45410	2.12	
		Aluminium hydroxide	21645-51-2	-	1.97	
DGS-21	Corona Magenta	D&C Red 22	17372-87-1	C.I. 45380	0.89	96.58
		D&C Red 28	18472-87-2	C.I. 45410	0.95	
		Aluminium hydroxide	21645-51-2	-	1.58	

(1) Non fluorescent colors (Not UV/Blacklight responsive)

(2) Bis (Glycidoxyphenyl) propane/ bisaminomethylnorbornane copolymer (CAS 146277-66-9)

Declaration of application to Europe, US and Japan regulations

Sales Code	Color	Europe	US			Japan		
			Lip	Eye	Ext	Lip	Eye	Ext
DGS-00	Fluo. Illuminator	1	Yes	Yes	Yes	Unknown	Unknown	Unknown
DGS-11	Aurora Pink	1 *	Yes	No	Yes	Yes	Yes	Yes
DGS-13EC	Rocket Red	1 *				Yes	Yes	Yes
DGS-13US	Rocket Red		Yes	No	Yes	Yes	Yes	Yes
DGS-15EC	Blaze Orange	1 *				Yes	Yes	Yes
DGS-15US	Blaze orange		Yes	No	Yes	Yes	Yes	Yes
DGS-17	Saturn Yellow	3 *	No	No	Yes	No	No	Yes
DGS-531EC	G/S Yellow	1	No	No	No	Yes	Yes	Yes
DGS-531US	G/S Yellow		Yes	No	Yes	Yes	Yes	Yes
DGS-19	Horizon Blue	1	No	Yes	Yes	Yes	Yes	Yes
DGS-20	Purple	3	No	No	Yes	No	No	Yes
DGS-21	Corona Magenta	1 *	Yes	No	Yes	Yes	Yes	Yes

Specific considerations :

Europe	<p>1 = All cosmetics, 2 = All, but not in the vicinity of eyes, 3 = No contact to mucous membranes, 4 = Contact only briefly with the skin. * = FOA (Field of application): not allowed if considered as hair dyes (safety assessment consulting) in hair dyeing products in the EU since 2009.</p>
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DGS cosmetic colorants are based on D&C approved cosmetic dyes. The final color specifications depend on the starting raw materials, which can have high variations. For this we recommend to combine more than one DGS colorant in your formulation in order to be able to adjust the final shade if needed.

Startpoint formulations

Aurora pink hair spiker

Deionized water	61.17
PVP K-15 (ISP) (polyvinylpyrrolidinone)	1.50
Structure plus (National Starch)	15.00
Celquat H-100 (Nat. Starch) (polyquaternium-4)	1.00
DC-193 (Dow Corning) (PEG-12 dimethicone)	0.10
Arquad 16-29W (Akzo Nobel) (cetrimonium chloride)	0.86
Phenonip (Clariant)	0.37
DGS (Radiant Color NV)	15.00
Titanium dioxide dispersion	5.00
Citric acid 25% solution q.s. to pH 7	

Procedure:

Using good agitation, slowly sift the Celquat H-100 into the water and mix until homogeneous. Add the Structure plus, DC-193, Arquad 16-29W, Phenonip and pigment. Mix well. Add citric acid solution and mix slowly until solution is pH 7.

Hair spray

Isopropanol	54.0
VP/VA copolymer, isopropanol	6.0
DGS (Radiant Color NV)	5.0-10.0
Parfum	qs
DME (or Propane/butane)	40

Nail varnish

Ethyl acetate	41.20
Butyl acetate	30.00
Nitrocellulose wet	14.00
DGS (Radiant Color NV)	10.00
Dibuthyl phtalate	4.00
Camphor	0.50
Acrylates copolymer	0.20
Benzophenone-1	0.10

Available colors, & package of the DGS series:

COLOR	DGS
DermagGlo Fluorescent Illuminator	DGS-00
DermaGlo Saturn Yellow	DGS-17
DermaGlo G/S Yellow	DGS-531EC
DermaGlo G/S Yellow	DGS-531US
DermaGlo Blaze Orange	DGS-15EC
Dermaglo Blaze Orange	DGS-15US
DermaGlo Rocket Red	DGS-13EC
Dermaglo Rocket Red	DGS-13US
DermaGlo Aurora Pink	DGS-11
DermaGlo Corona Magenta	DGS-21
DermaGlo Purple	DGS-20
DermaGlo Horizon Blue	DGS-19

Package:	Bags containing:	
5 kg	1 x 5 kg	= Minimal order
1 box = 20 kg	1 x 20 kg	

® = Registered trademark

Disclaimer: This technical information is just an advice. No warranty of fitness for a particular purpose is made.