

TECHNICAL DATA SHEET

Identification:

a) Product name	: D & C Red 6 Barium Lake / Lavanya Flamingo
b) Available Form	: Powder
c) Synonyms	: Pigment Red 57:2 Lake
d) Chemical Name	: Barium 3-hydroxy-4-[(4-methyl-2-sulphonatophenyl)azo]-2-naphthoate
e) Color Index No.	: 15850:2
f) Color Index Name	: Pigment Red 57:2
g) E No.	: Not Applicable
h) CAS No.	: 17852-98-1
i) EINES No.	: 241-806-4
j) INCI Name	: CI 15850:2
k) Country of Origin	: India
l) Origin	: Synthetic
m) Wavelength of Max Absorbance	: @ 520 ± 4 nm
n) Absorptivity g.cm / 100 ml	: 594
o) Chemical Structure	
p) Chemical Formula	: C18H14N2O6S.Ba
q) Molecular Weight	: 521.69 g/mole
r) Typical Hue	

Compositions:

Component	CAS Number	Dye Content- 15 - 20%	Dye Content- 18 - 25%	Dye Content- 30 - 38%
D & C Red 6	5858-81-1	15 - 20% W/W	18 - 25% W/W	30 - 38% W/W
Barium Sulphate	7727-43-7	66 - 70% W/W	60 - 66% W/W	42 - 48% W/W
Gum Rosin	8050-09-7	06 - 07% W/W	07 - 08% W/W	12 - 14% W/W
Water (Moisture)	7732-18-5	5% W/W, maximum	5% W/W, maximum	5% W/W, maximum
Sodium Chloride & Sulphate (As Sodium Salt)	7647-14-5 & 7757-82-6	3% W/W, maximum	3% W/W, maximum	3% W/W, maximum

Compositions:

Component	CAS Number	Dye Content- 38 - 45%	Dye Content- 45 - 52%	Dye Content- 63 - 70%
D & C Red 6	5858-81-1	38 - 45% W/W	45 - 52% W/W	63 - 70% W/W
Barium Sulphate	7727-43-7	33 - 37% W/W	23 - 27% W/W	Not applicable
Gum Rosin	8050-09-7	14 - 17 % W/W	17 - 20% W/W	22 - 29% W/W
Water (Moisture)	7732-18-5	5% W/W, maximum	5% W/W, maximum	5% W/W, maximum
Sodium Chloride & Sulphate (As Sodium Salt)	7647-14-5 & 7757-82-6	3% W/W, maximum	3% W/W, maximum	3% W/W, maximum

Regulations:

This colorant meets specification of:

- a) CFR - Code of Federal Regulations Title 21, Part- 82.
- b) Indian Standard [IS 4707] for cosmetic products.
- c) European Cosmetic Directive (EC) No 1223/2009 - ANNEX IV (E180) of the council of 30 November 2009.
- d) Chinese Standards for Cosmetic Products.

Properties:

Physical Appearance	pH of 2% Suspension	Solution Tone	Bulk Density [G/CC]	Particle Size (Micron)
Red Powder	8 – 11	Not Applicable	0.40 – 0.90	< 7

Solubility:

Water	Ethanol (100%)	Ethanol (25%)	Ethyl Acetate	Acetone	IPA (Isopropanol)	n- Butanol	N-Butyl Acetate	Glycerol	Propylene Glycol
Insoluble	Slightly Soluble	Slightly Soluble	<0.1%	Insoluble	<0.1%	<0.1%	Slightly Soluble	Disperse <0.1%	Disperse <0.1%

Vegetable Oil	Light Liquid Paraffin Oil (LLP)	3:1, Methanol : n-Butanol	Sorbitol	Iso Propyl Maristate (IPM)	Silicon Oil	Castor Oil
Soluble	Insoluble	<0.1%	Disperse <0.1%	<0.1%	Insoluble	Disperse <0.1%

Stability :

a) pH	: 4 – 12
b) Heat	: Color is stable up to 200°C
c) Light Fastness	: 7

Note:- Stability to light fastness is measured on the scale of 1 to 8 by considering Excellent= 8 , Very Good=7, Good = 6, Moderate = 5, Very Fair = 4, Fair = 3, Poor = 2, Very poor = 1

Applications :

Mainly use in Drugs & Cosmetic products.

Certified for use in by US FDA - The combined total of D & C Red No. 6 and D & C Red No. 7 must not exceed 5 mg per daily dose of a drug. Cosmetics --- consistent with GMP.

Refer product brochure for more details.

Typical guideline for use :

D & C Red 6 Barium Lake is insoluble in water.

It gives coloration through Dispersion. For coloration this product, first pre-disperse in any suitable medium (like propylene glycol, glycerol any convenient medium which is compatible to final product). This dispersion is then used for the coloration of final product.

Typical Impurity Profile:

Sr. No.	Test	Unit	Limit	Specification
1.	SOLUBLE BARIUM	%W/W	MAXIMUM	00.05
2.	SUBSIDIARY COLOURING MATTER	%W/W	MAXIMUM	00.50
3.	P-TOLUIDINE-M-SULFONIC ACID	%W/W	MAXIMUM	00.20
4.	P-TOLUIDINE	MG/KG	MAXIMUM	15.00
5.	3-HYDROXY-2-NAPHTHOIC	%W/W	MAXIMUM	00.20
6.	1-[(4-METHYLPHENYL)AZO]-2-NA	%W/W	MAXIMUM	0.015
7.	LEAD	MG/KG	MAXIMUM	02.00
8.	MERCURY	MG/KG	MAXIMUM	01.00
9.	ARSENIC	MG/KG	MAXIMUM	02.00
10.	CADMIUM	MG/KG	MAXIMUM	01.00
11.	ANTIMONY	MG/KG	MAXIMUM	10.00
12.	ETHER EXTRACTABLE MATTER (From a Solution of pH-7)	%W/W	MAXIMUM	0.20
13.	UNSULFONATED PRIMARY AROMATIC AMINES (Expressed as Aniline)	%W/W	MAXIMUM	0.01
15.	MICROBIOLOGICAL SPECIFICATION	--	--	--
a.	TOTAL VIABLE BACTERIAL COUNT	CFU/GM	MAXIMUM	500
b.	TOTAL FUNGI (YEAST& MOULDS) COUNT	CFU/GM	MAXIMUM	70
c.	TEST FOR PRESENCE OF <i>Staphylococcus aureus</i>	--	--	Absent / 1 gm
d.	TEST FOR PRESENCE OF <i>E.coli</i>	--	--	Absent / 1 gm
e.	TEST FOR PRESENCE OF <i>Salmonella</i>	--	--	Absent / 10 gm
f.	TEST FOR PRESENCE OF <i>Pseudomonas aeruginosa</i>	--	--	Absent / 1 gm

Typical Packing :

As a standard packaging we fill 12.5 Kg product in HDPE drum containing food grade LDPE bag as a primary packaging. The bag is seal with red colour one time use plastic bag locking seal. The drum is seal with red colour plastic drum seal.

Apart from that we can pack the product as per customer's requirement.

Storage & Handling:

Product "Store at an ambient Temperature & dry place" & Keep container tightly sealed & closed in condition after using. For more information refer Material Safety Data Sheet.

Shelf Life: 8 Years

Certifications:

FSSC 22000	ISO 9001	GMP	HALAL – MUI Indonesia	HALAL – JUHF India	Kosher (Star K)
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Declarations:

❖ GMO Free	❖ TSE/BSE Free	❖ Allergen Free	❖ Nitrosamines Free	❖ Suitable for Vegan & Vegetarian
❖ Pesticides Free	❖ Melamine Free	❖ Alcohol Free	❖ Irradiation Free	❖ No content of VOC (Volatile Organic Compounds)
❖ No Plant Tissue	❖ Paraben Free	❖ Genotoxic Free	❖ Aflatoxin Free	❖ No Preservatives
❖ No Animal Tissue	❖ No CMR	❖ Dioxin Free	❖ Gluten Free	❖ No Residual Solvent
❖ No Additives	❖ No Animal Testing (Cruelty Free)	❖ Latex Free	❖ No technology of Nano Particles	

Guarantee :

Neelikon is committed to supply you best quality product, meeting legislative and statutory requirements by adopting good manufacturing practices consistently.

We hope you will be satisfied with our quality and services. We thank you for your valued support.



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supplies

ABN 48 134 605 333
Australian owned and operated since 1989

Customer Care Team

46 Williamson Road, Ingleburn NSW 2565, Australia
PO Box 130, Panania NSW 2213, Australia

T 1300 138 203
INT +61 2 8776 8570

sales@allcoloursupplies.com.au

www.allcoloursupplies.com.au





Shades depicted are for reference only. Clients are advised to check samples for shade matching.

Neelikon realizes that we are serving an ever-changing marketplace. In this scenario changes in legislation may cause the information contained herein requires updating. We therefore request clients to re-check with their appropriate legislative authorities before using any of our products in their intended application.

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