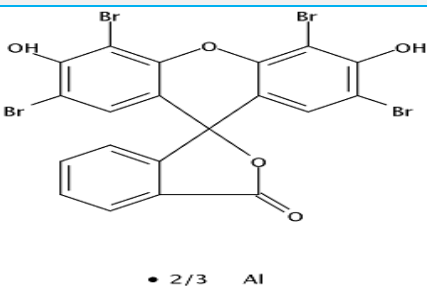


TECHNICAL DATA SHEET

Identification:

a) Product name	: D & C Red 21 Lake / Lavanya Carlotta
b) Available Form	: Powder
c) Synonyms	: Eosine Lake / Solvent Red 43 Lake
d) Chemical Name	: Dialuminium tris[2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate]
e) Color Index No.	: 45380:3
f) Color Index Name	: Pigment Red 90:1
g) E No.	: Not Applicable
h) CAS No.	: 15876-39-8
i) EINES No.	: 240-005-7
j) INCI Name	: CI 45380:3
k) Country of Origin	: India
l) Origin	: Synthetic
m) Wavelength of Max Absorbance	: @ 518 ± 4 nm
n) Absorptivity g.cm / 100 ml	: 1500
o) Chemical Structure	 <p>• 2/3 Al</p>
p) Chemical Formula	: C ₆₀ H ₁₈ Al ₂ Br ₁₂ O ₁₅
q) Molecular Weight	: 1991.58 g/mole
r) Typical Hue	

Compositions:

Component	CAS Number	Dye Content- 13 - 17%	Dye Content- 18 - 22%
D & C Red 21	15086-94-9	13 - 17% W/W	18 - 22% W/W
Aluminium Hydroxide	21645 -51-2	64 - 68% W/W	59 - 63% W/W
Water in the form of Moisture	7732-18-5	17.00% W/W, maximum	17.00% W/W, maximum
Sodium Chloride & Sulphate (As Sodium Salt)	7647-14-5 & 7757-82-6	02.00% W/W, maximum	02.00% 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 of the council of 30 November 2009.
- d) Chinese Standards for Cosmetic Products.

Properties:

Physical Appearance	pH of 2% Slurry	Solution Tone	Bulk Density [G/CC]	Particle Size (Micron)
Red Powder	4 – 5.5	Not Applicable	0.2 – 0.5	< 7

Solubility:

Water	Ethanol (100%)	Ethanol (25%)	Ethyl Acetate	Acetone	IPA (Isopropanol)	n- Butanol	N-Butyl Acetate	Glycerol	Propylene Glycol
Insoluble	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 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%	< 0.10%	Slightly Soluble	Disperse <0.1%

Stability :

a) pH	: 3.5 – 5.5
b) Heat	: Color is stable up to 100°C
c) Light Fastness	: 5

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 - Drugs & Cosmetics- In Amounts consistent with current Good manufacturing practice.

Refer product brochure for more details.

Typical guideline for use :

D & C Red 21 Al Lake is insoluble & in most organic solvents but soluble in Acid & Alkali medium.

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.	WATER INSOLUBLE MATTER -NAOH	%W/W	MAXIMUM	00.50
2.	PHTHALIC ACID	%W/W	MAXIMUM	00.20
3.	BROMINATED RESORCINOL	%W/W	MAXIMUM	00.20
4.	2-(3,5- DIBR-2,4-DIOH-BENZOYL)	%W/W	MAXIMUM	00.20
5.	2-(6-HYDROXY-3-OXO-3H-XANTHEN-9-Y1) BENZOIC ACID	%W/W	MAXIMUM	01.00
6.	2-(BROMO-6-HYDROXY-3-OXO- 3H-XANTHEN-9-YL) BENZOIC ACID	%W/W	MAXIMUM	02.00
7.	ARSENIC	MG/KG	MAXIMUM	02.00
8.	LEAD	MG/KG	MAXIMUM	10.00
9.	MERCURY	MG/KG	MAXIMUM	01.00
10.	CADMIUM	MG/KG	MAXIMUM	01.00
11.	ANTIMONY	MG/KG	MAXIMUM	10.00
12.	COPPER	MG/KG	MAXIMUM	25.00
13.	CHROMIUM	MG/KG	MAXIMUM	25.00
14.	ZINC	MG/KG	MAXIMUM	25.00
15.	BARIUM	MG/KG	MAXIMUM	25.00
16.	ANTIMONY	MG/KG	MAXIMUM	10.00
17.	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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Australian owned and operated since 1989

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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.

Although based on our general experience, the information presented herein is believed to be reliable, Neelikon makes no representation or guarantee as to the accuracy, completeness or reliability of the information. Due to various factors that are outside our control, we cannot accept liability from reliance on this information for any circumstances.

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