







TECHNICAL DATA SHEET

Identification:

a) Product name	: Neelilake Sunset Yellow FCF Lake						
b) Available Form	: Powder						
c) Synonyms	: Pigment Yellow 104 Lake						
d) Chemical Name	: Aluminium, 6-hydroxy-5-[(4-sulfophenyl)azo]-2-naphthalenesulfonic acid complex						
e) Color Index No.	: 15985 : 1						
f) Color Index Name	: Food Yellow 3:1						
g) E No.	: E 110						
h) CAS No.	: 15790-07-5						
i) EINES No.	: 239-888-1						
j) INCI Name	: Cl 15985 : 1						
k) Country of Origin	: India						
I) Origin	: Synthetic						
m) Wavelength of Max Absorbance	: @ 482 ±4 nm						
n) Absorptivity g.cm / 100 ml	: 555						
o) Chemical Structure	AlO_3S OH OH OH OH OH OH OH OH						
p) Chemical Formula	: C16H9AIN2O7S2						
q) Molecular Weight	: 432.36 g/mole						
r) Typical Hue							

Compositions:

Component	CAS Number	Dye Content-				
		09 - 14%	12 - 17%	20 - 28%	40 - 48%	44 - 52%
Sunset Yellow FCF	2783-94-0	9 - 14% W/W	12 - 17% W/W	20 - 28% W/W	40 - 48% W/W	44 - 52% W/W
Aluminium Hydroxide	21645 -51-2	67 - 72% W/W	64 - 69% W/W	53 - 61% W/W	33 - 41% W/W	29 - 37% W/W
Water in the form of	7732-18-5	17.00% W/W,				
Moisture		maximum	maximum	maximum	maximum	maximum
Sodium Chloride &	7647-14-5 &	02.00% W/W,				
Sulphate (As Sodium	7757-82-6	maximum	maximum	maximum	maximum	maximum
Salt)						

AWARDS

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Regulations:

This colorant meets specification of:

- a) Indian Cosmetic standard IS 4707.
- b) European Food Directive (EU) No 231/2012 of 9 March 2012 for use in Food product & EC Cosmetic Directive (EC) No 1223/2009 of the council of 30 November 2009.
- c) Joint FAO/WHO Expert Committee on Food Additives (JECFA).
- d) Chinese Standards for Food Additive & Cosmetic Products.

Properties:

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

Solubility:

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

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

<u>Stability:</u>

a) pH	: 3.5 – 5.5
b) Heat	: Color is stable up to 150°C
c) Light Fastness	:6

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 Food, Drugs & Cosmetic products.

Refer product brochure for more details.

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Typical guideline for use:

Sunset Yellow FCF 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.	Test	Unit	Limit	Specification
No.				
1	HCL INSOLUBLE MATTER	% W/W	MAXIMUM	00.50
2	BLEEDING (2 % SLURRY IN DEIONIZED WATER)	%W/W	MAXIMUM	00.10
3	ETHER EXTRACTABLE MATTER	%W/W	MAXIMUM	00.20
4	SUBSIDIARY COLOURS	%W/W	MAXIMUM	04.00
5	UNSULPHONATED AROMATIC AMINES	%W/W	MAXIMUM	00.01
6	ORGANIC COMPOUNDS OTHER THAN COLOURING MATTERS	%W/W	MAXIMUM	00.50
7	SUDAN I	PPB	MAXIMUM	500
8	ARSENIC	MG/KG	MAXIMUM	01.00
9	LEAD	MG/KG	MAXIMUM	02.00
10	MERCURY	MG/KG	MAXIMUM	01.00
11	CADMIUM	MG/KG	MAXIMUM	01.00
12	ANTIMONY	MG/KG	MAXIMUM	10.00
13	COPPER	MG/KG	MAXIMUM	25.00
14	CHROMIUM	MG/KG	MAXIMUM	25.00
15	ZINC	MG/KG	MAXIMUM	25.00
16	BARIUM	MG/KG	MAXIMUM	25.00
17	MICROBIOLOGICAL SPECIFICATION			
а	TOTAL VIABLE BACTERIAL COUNT	CFU/GM	MAXIMUM	500
b	TOTAL FUNGI (YEAST& MOULDS) COUNT	CFU/GM	MAXIMUM	70
С	TEST FOR PRESENCE OF Staphylococcus aureus			Absent / 1 gm
d	TEST FOR PRESENCE OF <i>E.coli</i>			Absent / 1 gm
е	TEST FOR PRESENCE OF Salmonella			Absent / 10 gm
f	TEST FOR PRESENCE OF Pseudomonas aeruginosa			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.

Technical Data Sheet

Storage & Handling:

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

Shelf Life: 8 Years

Certifications:

FSSC 22000	ISO 9001	GMP	HALAL – Indonesia	HALAL – India	Kosher
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Declarations:

•	GMO Free	*	TSE/BSE Free	*	Allergen Free	*	Nitrosamines Free	*	Suitable for Vegan &
									Vegetarian
4	Pesticides Free	*	Melamine Free	*	Alcohol Free	*	Irradiation Free	*	No content of VOC (Volatile
									Organic Compounds)
4	No Plant Tissue	*	Paraben Free	*	Genotoxic Free	*	Aflatoxin Free	*	No Preservatives
4	No Animal Tissue	*	No CMR	*	Dioxin Free	*	Gluten Free	*	No Residual Solvent
4	No Additives	*	No Animal Testin	ıg (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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ssued on: Nov-2020

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

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