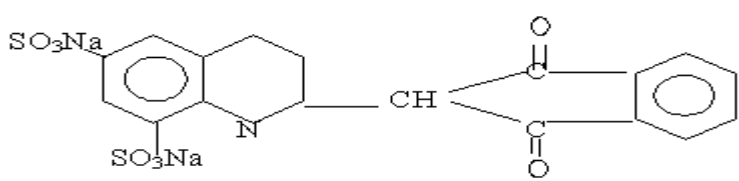


TECHNICAL DATA SHEET

Identification:

a) Product name	: Neelicol Quinoline Yellow WS / Neeligran Quinoline Yellow WS Granular
b) Available Form	: Powder / Granular
c) Synonyms	: Food Yellow 13
d) Chemical Name	: 1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-,sulfonated, sodium salts
e) Color Index No.	: 47005
f) Color Index Name	: Acid Yellow 3
g) E No.	: E 104
h) CAS No.	: 95193-83-2
i) EINES No.	: 305-897-5
j) INCI Name	: CI 47005
k) Country of Origin	: India
l) Origin	: Synthetic
m) Wavelength of Max Absorbance	: @ 411 ± 4 nm
n) Absorptivity g.cm / 100 ml	: 865
o) Chemical Structure	 <p>The chemical structure shows a quinoline ring system with two sodium sulfonate groups (SO₃Na) at the 2 and 8 positions. The quinoline ring is connected at the 3-position to a methylene group (-CH-), which is further connected to a phthalimide ring system.</p>
p) Chemical Formula	: C ₁₈ H ₉ NNa ₂ O ₈ S ₂ (principal component)
q) Molecular Weight	: 477.38 g/mole (Principal components)
r) Typical Hue	

Compositions:

Component	CAS Number	Dye Content- 70%, Minimum	Dye Content- 80%, Minimum	Dye Content- 88%, Minimum
Quinoline Yellow WS	95193-83-2	70.00%W/W, minimum	80.00%W/W, minimum	88.00%W/W, minimum
Water in the form of Moisture	7732-18-5	07.00%W/W, maximum	07.00%W/W, maximum	07.00%W/W, maximum
Sodium Chloride	7647-14-5	20.00%W/W, maximum	10.00%W/W, maximum	03.00%W/W, maximum
Sodium Sulphate	7757-82-6	03.00%W/W, maximum	03.00%W/W, maximum	02.00%W/W, maximum

Regulations:

This colorant meets specification of

- a) Indian Standards IS 4707 for Cosmetic Products.
- 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 1% Solution	Solution Tone	Bulk Density [G/CC]		Particle Size (Micron)	
			Powder	Granular	Powder	Granular
Yellow	6 to 8	Yellow	0.55 to 0.70	0.70 – 1.10	100 – 60	2057 – 710

Solubility:

Water	Ethanol (100%)	Ethanol (25%)	Methanol	Ethyl Acetate	Acetone	IPA (Isopropanol)	N-Butyl Acetate
20%	< 0.1%	4%	0.1%	Insoluble	< 0.1%	< 0.1%	Insoluble

Glycerol	Propylene Glycol	Vegetable Oil	Light Liquid Paraffin Oil (LLP)	Sorbitol	Iso Propyl Maristate (IPM)	Silicon Oil
0.1%	0.30%	Insoluble	Insoluble	1.1%	Insoluble	Insoluble

Stability :

a) pH	: Stable at pH- 1 to 9
b) Heat	: Color is stable up to 250°C
c) Light Fastness	: 5

Note:- 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. [Permitted to use in all cosmetic products]

Refer product Brochure for more details

Typical guideline for use :

Quinoline Yellow WS is Dye & It gives coloration through Solution. For coloration this product, first pre-soluble in any suitable medium (like water, milk or any convenient medium which is compatible to final product). This solution is then used for the coloration of final product.

Typical Impurity Profile:

Sr. No.	Test	Unit	Limit	Specification
1	WATER INSOLUBLE MATTER	% W/W	MAXIMUM	00.20
2	COMBINED ETHER EXTRACT	% W/W	MAXIMUM	00.20
3	SUBSIDIARY DYES	% W/W	MAXIMUM	04.00
4	UNSULPHONATED AROMATIC AMINES	% W/W	MAXIMUM	00.01
5	ORGANIC COMPOUNDS OTHER THAN COLOURING MATTERS	%W/W	MAXIMUM	00.50
6	2-(2-QUINOLYL)INDAN-1,3-DIONE	MG/KG	MAXIMUM	04.00
7	HEAVY METALS	--	--	--
a	ARSENIC	MG/KG	MAXIMUM	01.00
b	LEAD	MG/KG	MAXIMUM	02.00
c	MERCURY	MG/KG	MAXIMUM	01.00
d	CADMIUM	MG/KG	MAXIMUM	01.00
e	CHROMIUM	MG/KG	MAXIMUM	25.00
f	ZINC	MG/KG	MAXIMUM	25.00
g	COPPER	MG/KG	MAXIMUM	10.00
h	TIN	MG/KG	MAXIMUM	10.00
i	MANGANESE	MG/KG	MAXIMUM	25.00
j	ANTIMONY	MG/KG	MAXIMUM	10.00
k	BARIUM	MG/KG	MAXIMUM	25.00
8	MICROBIOLOGICAL SPECIFICATION	--	--	--
a	TOTAL VIABLE BACTERIAL COUNT	CFU/GM	MAXIMUM	500
b	TOTAL FUNGI (YEAST& MOLDS) 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 25 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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