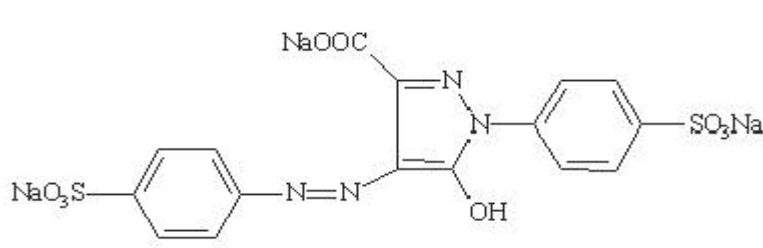


TECHNICAL DATA SHEET

Identification:

a) Product name	: Neelicert FD & C Yellow 5 / Neelicert FD & C Yellow 5 Granular
b) Available Form	: Powder / Granular
c) Synonyms	: Acid Yellow 23
d) Chemical Name	: Trisodium 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-1H-pyrazole-3-carboxylate
e) Color Index No.	: 19140
f) Color Index Name	: Food Yellow 4
g) E No.	: E 102
h) CAS No.	: 1934- 21- 0
i) EINES No.	: 217-699-5
j) INCI Name	: CI 19140
k) Country of Origin	: India
l) Origin	: Synthetic
m) Wavelength of Max Absorbance	: @ 428 ± 4 nm
n) Absorptivity g.cm / 100 ml	: 530
o) Chemical Structure	
p) Chemical Formula	: C ₁₆ H ₉ N ₄ O ₉ S ₂ Na ₃
q) Molecular Weight	: 534.37 g/mol
r) Typical Hue	

Compositions:

Component	CAS Number	% W/W Content
FD & C Yellow 5	1934-21-0	87.00, minimum
Water in the form of Moisture	7732-18-5	07.00, maximum
Sodium Chloride	7647-14-5	05.00, maximum
Sodium Sulphate	7757-82-6	01.00, maximum

AWARDS

Regulations:

This colorant meets specification of:

- a) CFR - Code of Federal Regulations Title 21, Part- 74.
- b) Food Safety and Standards Authority of India [FSSAI] & IS 4707.
- c) 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.
- d) Japanese regulations.
- e) Joint FAO/WHO Expert Committee on Food Additives (JECFA).
- f) 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
Light Orange	6 to 8	Yellow	0.50 to 0.70	0.55 – 0.95	100 – 60	2057 – 710

Solubility:

Water	Ethanol (100%)	Ethanol (25%)	Methanol	Ethyl Acetate	Acetone	IPA (Isopropanol)	N-Butyl Acetate
20%	< 0.1%	8%	0.2%	Insoluble	Insoluble	Insoluble	Insoluble

Glycerol	Propylene Glycol	Vegetable Oil	Light Liquid Paraffin Oil (LLP)	Sorbitol	Iso Propyl Maristate (IPM)	Silicon Oil
0.1%	9.5%	Insoluble	Insoluble	5.5%	Insoluble	Insoluble

Stability :

a) pH	: Stable at pH- 3 to 11
b) Heat	: Color is stable up to 210°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.
In Drugs & Cosmetics - Including those intended for use in the area of the eye.

Refer product brochure for more details.

Typical guideline for use :

FD & C Yellow 5 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	00.10
2.	ORGANIC COMPOUNDS OTHER THAN COLOURING MATTERS (AS PER EU NO 231/2012)	% W/W	MAXIMUM	00.50
3a.	SULFANILIC ACID (AS PER CFR - TITLE 21, PART- 74)	% W/W	MAXIMUM	00.20
3b.	ETHYL ESTER OF PYRAZOLONE T (AS PER CFR - TITLE 21, PART- 74)	% W/W	MAXIMUM	00.10
3c.	PYRAZOLONE T (AS PER CFR - TITLE 21, PART- 74)	% W/W	MAXIMUM	00.20
3d.	DAADBSA (AS PER CFR - TITLE 21, PART- 74)	% W/W	MAXIMUM	00.05
4.	SUBSIDIARY DYES (AS PER EU NO 231/2012)	% W/W	MAXIMUM	01.00
5a.	LOWER SULFONATED SUBSIDIARY (AS PER CFR - TITLE 21, PART- 74)	% W/W	MAXIMUM	00.50
5b.	ETHYL ESTER OF COLOR (AS PER CFR - TITLE 21, PART- 74)	% W/W	MAXIMUM	01.00
5c.	PEAK 5 (AS PER CFR - TITLE 21, PART- 74)	% W/W	MAXIMUM	01.00
5d.	PEAK 7 (AS PER CFR - TITLE 21, PART- 74)	% W/W	MAXIMUM	01.00
6.	UNSULFONATED AROMATIC AMINES (AS PER EU NO 231/2012)	% W/W	MAXIMUM	00.01
7a.	ANILINE	µG/KG	MAXIMUM	100.0
7b.	BENZIDINE	µG/KG	MAXIMUM	01.00
7c.	4-AMINOBIIPHENYL	µG/KG	MAXIMUM	05.00
7d.	4-AMINOAZOBENZENE	µG/KG	MAXIMUM	75.00
7e.	AZOBENZENE	µG/KG	MAXIMUM	40.00
8.	COMBINED ETHER EXTRACT	% W/W	MAXIMUM	00.20
9.	ARSENIC	MG/KG	MAXIMUM	01.00
10.	LEAD	MG/KG	MAXIMUM	02.00
11.	MERCURY	MG/KG	MAXIMUM	01.00
12.	CADMIUM	MG/KG	MAXIMUM	01.00
13.	CHROMIUM	MG/KG	MAXIMUM	25.00
14.	ZINC	MG/KG	MAXIMUM	25.00
15.	COPPER	MG/KG	MAXIMUM	10.00
16.	TIN	MG/KG	MAXIMUM	10.00
17.	MANGANESE	MG/KG	MAXIMUM	25.00
18.	ANTIMONY	MG/KG	MAXIMUM	10.00
19.	BARIUM	MG/KG	MAXIMUM	25.00
20.	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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ISO 9001, ISO 14001, HACCP, GMP, Kosher, Halal, Vegan, Vegetarian

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