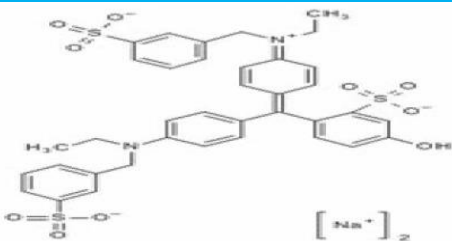


TECHNICAL DATA SHEET

Identification:

| | |
|---------------------------------|---|
| a) Product name | : Neelicer FD & C Green 3 |
| b) Available Form | : Powder |
| c) Synonyms | : Food Green 3 |
| d) Chemical Name | : Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)amino](4-hydroxy-2-sulphonatobenzhydrylidene)cyclohexa-2,5-dien-1-ylidene](3-sulphonatobenzyl)ammonium, disodium salt |
| e) Color Index No. | : 42053 |
| f) Color Index Name | : Food Green 3 |
| g) E No. | : Not applicable |
| h) CAS No. | : 2353-45-9 |
| i) EINES No. | : 219-091-5 |
| j) INCI Name | : CI 42053 |
| k) Country of Origin | : India |
| l) Origin | : Synthetic |
| m) Wavelength of Max Absorbance | : @ 625 ± 4 nm |
| n) Absorptivity g.cm / 100 ml | : 1560 |
| o) Chemical Structure |  |
| p) Chemical Formula | : C ₃₇ H ₃₄ N ₂ Na ₂ O ₁₀ S ₃ |
| q) Molecular Weight | : 808,85 g/mol |
| r) Typical Hue | |

Compositions:

| Component | CAS Number | % W/W Content |
|-------------------------------|------------|----------------|
| FD & C Green 3 | 2353-45-9 | 85.00, minimum |
| Water in the form of Moisture | 7732-18-5 | 07.00, maximum |
| Sodium Chloride | 7647-14-5 | 07.00, 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 Cosmetic Directive (EC) No 1223/2009 of the council of 30 November 2009.
- d) Joint FAO/WHO Expert Committee on Food Additives (JECFA).
- e) Chinese Standards for Cosmetic Products.

Properties:

| Physical Appearance | pH of 1% Solution | Solution Tone | Bulk Density [G/CC] | Particle Size (Micron) |
|----------------------|-------------------|---------------|---------------------|--------------------------|
| Greenish Blue Powder | 3 to 5.5 | Bluish Green | 0.50 to 0.70 | 100 – 60 |

Solubility:

| Water | Ethanol (100%) | Ethanol (25%) | Methanol | Ethyl Acetate | Acetone | IPA (Isopropanol) | N-Butyl Acetate |
|-------|----------------|---------------|----------|---------------|---------|---------------------|-----------------|
| 6% | < 0.1% | 1.30% | 0.50 | Insoluble | <0.1% | Insoluble | Insoluble |

| Glycerol | Propylene Glycol | Vegetable Oil | Light Liquid Paraffin Oil (LLP) | Sorbitol | Iso Propyl Myristate (IPM) | Silicon Oil |
|----------|------------------|---------------|---------------------------------|----------|------------------------------|-------------|
| < 0.1% | 0.60% | Insoluble | Insoluble | 0.50% | Insoluble | <0.1% |

Stability :

| | |
|-------------------|-------------------------------|
| a) pH | : Stable at pH- 2 to 9 |
| b) Heat | : Color is stable up to 250°C |
| c) Light Fastness | : 3 |

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.

Refer product brochure for more details.

Typical guideline for use :

FD & C Green 3 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 Profil

| Sr. No. | Test | Unit | Limit | Specification |
|---------|--|--------|---------|----------------|
| 1 | WATER INSOLUBLE MATTER | % W/W | MAXIMUM | 00.20 |
| 2 | LEUCO | % W/W | MAXIMUM | 05.00 |
| 3 | SULFOBENZALDEHYDE (O,M,P) | % W/W | MAXIMUM | 00.50 |
| 4 | ESBSA | % W/W | MAXIMUM | 00.30 |
| 5 | 4-HYDROXY-2-SULFOBENZALDEHYD | % W/W | MAXIMUM | 00.50 |
| 6 | LOWER SULFONATED SUBSIDIARY | % W/W | MAXIMUM | 06.00 |
| 7 | ARSENIC | MG/KG | MAXIMUM | 01.00 |
| 8 | LEAD | MG/KG | MAXIMUM | 02.00 |
| 5 | MERCURY | MG/KG | MAXIMUM | 01.00 |
| 6 | CADMIUM | MG/KG | MAXIMUM | 01.00 |
| 7 | CHROMIUM | MG/KG | MAXIMUM | 25.00 |
| 8 | ZINC | MG/KG | MAXIMUM | 25.00 |
| 9 | COPPER | MG/KG | MAXIMUM | 10.00 |
| 10 | TIN | MG/KG | MAXIMUM | 10.00 |
| 11 | MANGANESE | MG/KG | MAXIMUM | 50.00 |
| 12 | ANTIMONY | MG/KG | MAXIMUM | 10.00 |
| 13 | BARIUM | MG/KG | MAXIMUM | 25.00 |
| 14 | 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) |
|------------|----------|-----|-----------------------|--------------------|-------------------|

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.



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



The information in this e-mail message and any attached files may be confidential and may contain copyright material of All Colour Supplies Pty Ltd or third parties. Any unauthorised copying, disclosure or copying of this e-mail and/or its attachments is prohibited. If you have received this e-mail in error please notify the sender immediately by return e-mail and delete all copies of the message and attachments. Before opening or using attachments please check them for viruses or defects. Our liability is limited to supplying the e-mail and attached files. Contents and their exposure to this e-mail may be those of the sender, and are not necessarily endorsed by All Colour Supplies Pty Ltd.

Issued 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 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.

- This is a computer generated report and hence no signature is required to validate.