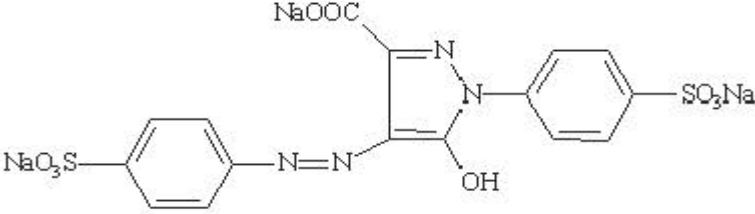
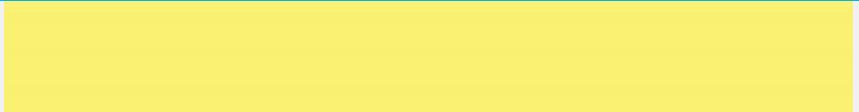


TECHNICAL DATA SHEET

Identification:

| | |
|---------------------------------|--|
| a) Product name | : D & C Yellow 11 / Lavanya Dandelion |
| b) Available Form | : Powder |
| c) Synonyms | : Quinoline Yellow SS |
| d) Chemical Name | : 2-(2-quinoly)-1,3-indandione |
| e) Color Index No. | : 47000 |
| f) Color Index Name | : Solvent Yellow 33 |
| g) E No. | : Not Applicable |
| h) CAS No. | : 8003-22-3 |
| i) EINES No. | : 232-318-2 |
| j) INCI Name | : CI 47000 |
| k) Country of Origin | : India |
| l) Origin | : Synthetic |
| m) Wavelength of Max Absorbance | : @ 420 ± 4 nm |
| n) Absorptivity g.cm / 100 ml | : 1350 |
| o) Chemical Structure |  |
| p) Chemical Formula | : C ₁₈ H ₁₁ NO ₂ |
| q) Molecular Weight | : 273.29 g/mol |
| r) Typical Hue |  |

Compositions:

| Component | CAS Number | % W/W Content |
|-------------------------------|------------|----------------|
| D & C Yellow 11 | 8003-22-3 | 97.00, minimum |
| Water in the form of Moisture | 7732-18-5 | 01.00, maximum |
| Sodium Chloride | 7647-14-5 | 01.00, maximum |
| Sodium Sulphate | 7757-82-6 | 01.00, maximum |

Regulations:

This colorant meets specification of:

- a) CFR - Code of Federal Regulations Title 21, Part- 74.
- b) Indian Standard [IS 4707] for cosmetic products.
- c) European Cosmetic Directive (EC) No 1223/2009 of the council of 30 November 2009.
- d) Japanese regulations.
- e) Chinese Standards for Cosmetic Products.

Properties:

| Physical Appearance | pH of 1% Solution | Solution Tone | Bulk Density [G/CC] | Particle Size (Micron) |
|---------------------|-------------------|---------------|---------------------|--------------------------|
| Yellow Powder | 6 to 8 | Yellow | 0.40 to 0.70 | 100 – 60 |

Solubility:

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

| Glycerol | Propylene Glycol | Vegetable Oil | Light Liquid Paraffin Oil (LLP) | Sorbitol | Iso Propyl Maristate (IPM) | Silicon Oil |
|----------|------------------|---------------|---------------------------------|----------------|------------------------------|-------------|
| <0.1% | Disperse <0.1% | <0.1% | 20 PPM | Disperse <0.1% | <0.1% | <0.1% |

Stability :

| | |
|-------------------|--------------------------------|
| a) pH | : Not applicable |
| b) Heat | : Color is stable up to 100°C. |
| c) Light Fastness | : 7 |

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 - It is allowed exclusively in Cosmetic products intended not to come into contact with the mucous membranes.

Refer product brochure for more details.

Typical guideline for use :

D & C Yellow 11 is Dye & It gives coloration through solution. For coloration this product, first pre-soluble in any suitable medium (light liquid paraffin, vegetable oil or compatible fragrances). This solution is then used for the coloration of final product.

Typical Impurity Profile:

| Sr. No. | Test | Unit | Limit | Specification |
|---------|--|--------|---------|----------------|
| 1 | INSOLUBLE MATTER- ETHYL ALCOHOL | % W/W | MAXIMUM | 00.40 |
| 2 | PTHALIC ACID | % W/W | MAXIMUM | 00.30 |
| 3 | QUINALDINE | % W/W | MAXIMUM | 00.20 |
| 4 | MERCURY | MG/KG | MAXIMUM | 01.00 |
| 5 | LEAD | MG/KG | MAXIMUM | 10.00 |
| 6 | ARSENIC | MG/KG | MAXIMUM | 02.00 |
| 7 | 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 10 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) |
|------------|----------|-----|-----------------------|--------------------|-------------------|

Technical Data Sheet

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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Issued on: Nov-2020

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