

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Trade name: D & C Green 6 / Lavanya Angulosa****• CAS Number:**

128-80-3

• EC number:

204-909-5

• Registration number 05-2114650698-34-0000 (Pre-registration no.)**• 1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

• Application of the substance / the preparation

Used as a Dye, coloring agent.

Used in coloring oils, waxes, greases, fats, hydrocarbons derivatives, polishes, oily insecticides, and acrylic emulsions. Used in coloring cosmetics and medications.

• 1.3 Details of the supplier of the safety data sheet**• Manufacturer/Supplier:**Neelikon Food Dyes & Chemicals Ltd.,
D-8, D-17 Everest, 5th Floor,
Pandit Madan Mohan Malviya Marg,
Tardeo, Mumbai – 400 034.**• Further information obtainable from:**

Tel : 00 91 22 66661415(6 Hunting Lines)

Fax : 00 91 22 23523945 /66626916

Email ID: info@neelikon.com**• 1.4 Emergency telephone number:**M/s Neelikon Food Dyes & Chemicals
Ltd., D-8, Everest, 5th Floor,

Pdt.M.M.Marg, Tardeo Circle, Mumbai 34, India.

Tel.: 00 91 22 66626 874, Mobile No. :00 91 9970004002

Kind. Attn.Mr.Rajeev Mathyal.

SECTION 2: Hazards identification**• 2.1 Classification of the substance or mixture****• Classification according to Regulation (EC) No 1272/2008**

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

• Information concerning particular hazards for human and environment: Not applicable.**• 2.2 Label elements****• Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

GHS07

· **Signal word** Warning· **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.1 Chemical characterization: Substances**· **CAS No. Description**

128-80-3 1,4-bis(p-tolylamino)anthraquinone

· **Identification number(s)**· **EC number:** 204-909-5· **Additional information:**Molecular Formula: C₂₈H₂₂N₂O₂

Molecular Weight: 418.49

SECTION 4: First aid measures· **4.1 Description of first aid measures**· **General information:** Consult a physician.· **After inhalation:**

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

· **4.2 Most important symptoms and effects, both acute and delayed** No data available· **Information for doctor:** Treat symptomatically.

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- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Combustible solid which burns but propagates flame with difficulty.
Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust may burn rapidly and fiercely if ignited.
Dry dust can be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport.
Build-up of electrostatic charge may be prevented by bonding and grounding.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self contained breathing apparatus for fire fighting if necessary.
- **Additional information**
During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective clothing, gloves, safety glasses and dust respirator.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
MINOR SPILLS:
Clean up all spills immediately.
Avoid breathing dust and contact with skin and eyes.
Use dry clean up procedures and avoid generating dust.
Sweep up, shovel up or vacuum up (consider explosion-proof machines designed to be grounded during storage and use).
Place spilled material in clean, dry, sealable, labeled container.
MAJOR SPILLS (Moderate hazard): CAUTION: Advise personnel in area.
Alert Emergency Responders and tell them location and nature of hazard.
Control personal contact by wearing protective clothing.
Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible.
IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal.
IF WET: Vacuum/shovel up and place in labelled containers for disposal.
ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage· **7.1 Precautions for safe handling**

Avoid contact with skin and eyes.

Avoid formation of dust and aerosols.

Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.

Provide appropriate exhaust ventilation at places where dust is formed.

Use good occupational work practice.

When handling, do not eat, drink or smoke.

Keep containers securely sealed when not in use.

Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

· **Information about fire - and explosion protection:** Normal measures for preventive fire protection.· **7.2 Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Adequate ventilation to keep airborne concentrations low.

Recommended Polyethylene or polypropylene containers. Check all containers are clearly labelled and free from leaks.

· **Information about storage in one common storage facility:**

Store away from incompatible materials and foodstuff containers.

· **Further information about storage conditions:**

Store in original containers.

Keep containers securely sealed.

Store in a cool, dry, well-ventilated area.

Protect containers against physical damage and check regularly for leaks.

· **7.3 Specific end use(s)**

Used as a Dye, coloring agent.

Used in coloring oils, waxes, greases, fats, hydrocarbons derivatives, polishes, oily insecticides, and acrylic emulsions. Used in coloring cosmetics and medications.

SECTION 8: Exposure controls/personal protection· **Additional information about design of technical facilities:** No further data; see item 7.· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:** Not required.· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Use overalls, P.V.C. apron, barrier cream, Skin cleansing cream.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

a) Appearance:	Solid
b) Form:	Powder
c) Colour:	Dark blue
d) Odour:	Characteristic
e) Odour threshold:	No available

f) pH-value:	Not available
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- **Change in condition**

g) Melting point/Melting range:	460 °C (at 975 hPa)
h) Boiling point/Boiling range:	633.8 °C (at 760 Torr)

i) Flash point:	122 °C (at 975 hPa)
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j) Flammability (solid, gaseous):	Product is not flammable.
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- **Ignition temperature:**

l) Decomposition temperature:	Not available °C
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m) Self-igniting:	Product is not self-igniting.
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n) Danger of explosion:	Product does not present an explosion hazard.
o) Explosion limits:	Not available
p) Oxidizing properties	316 mg/100g
q) Vapour pressure at 25 °C:	0.0000000000007 mmHg
r) Density at 30 °C:	0.253 g/cm ³
s) Evaporation rate at 20 °C	Not available g/cm ³
t) Solubility in / Miscibility with water at 25 °C:	0.000085841 mg/l
u) Partition coefficient (n-octanol/water) at 30 °C:	0.6989 log POW
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity****10.2 Chemical stability** Not available**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

Avoid presence of incompatible materials.

Avoid dust generation.

Hazardous polymerization will not occur.

10.3 Possibility of hazardous reactions

Dust may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.

10.4 Conditions to avoid No further relevant information available.**10.5 Incompatible materials:** Strong oxidizing agents, Strong acids**10.6 Hazardous decomposition products:**

Nitrogen oxides, carbon monoxide, carbon dioxide, irritating and toxic fumes and gases.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:**

Oral	LD 50	3660 mg/kg (rat)
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Primary irritant effect:**on the skin:** Irritant to skin and mucous membranes.**on the eye:** Irritating effect.**Sensitization:** No sensitizing effects known.**Subacute to chronic toxicity:**

Acute Potential Health Effects:

Skin: Causes skin irritation.

Eyes: Dust causes moderate eye irritation.

Inhalation: Dust causes respiratory tract irritation.

Ingestion: May cause gastrointestinal tract irritation.

Acute effects (acute toxicity, irritation and corrosivity)

Draize test: Eyes (rabbit): 20mg/24Hr Moderate eye irritation

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- **Repeated dose toxicity**
 - (h) STOT-single exposure Data not available
 - (i) STOT-repeated exposure Data not available
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - (e) germ cell mutagenicity :No data available
 - (f) carcinogenicity :No data available
 - (g) reproductive toxicity :No data available

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:**

EC50 (96 hrs) (static)	0.006 mg/L (Green Algae)
LC50 (48 hrs) (static)	0.00064 mg/L (Daphnia magna)
LC50 (96 hrs) (static)	0.000423 mg/L (Fish)

- **12.2 Persistence and degradability** The substance is not inherently biodegradable
- **12.3 Bioaccumulative potential**
BCF: 520
The substance has low bioaccumulation potential
- **12.4 Mobility in soil**
Log Koc : 6.67
The substance has very strong sorption to soil and sediment and therefore shall have negligible migration potential to groundwater.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment TO BE PROVIDED IN THE REGISTRATION DOSSIER**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations· **13.1 Waste treatment methods**· **Recommendation**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

· **Uncleaned packaging:**· **Recommendation:**

Disposal must be made according to official regulations.
Dispose of as unused product.

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

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SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, IMDG	Not applicable
· 14.2 UN proper shipping name	
· ADR, IMDG	Not applicable
· 14.3 Transport hazard class(es)	
· ADR	
· Class	Not applicable
· 14.4 Packing group	
· ADR, IMDG	Not applicable
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not regulated for transport of dangerous goods.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **National regulations:**· **Other regulations, limitations and prohibitive regulations**

Found on the following regulatory lists:

"Canada Domestic Substances List (DSL)", "Canada Ingredient Disclosure List (SOR/88-64)", "US FDA CFSAN Color Additive Status List 2", "US FDA CFSAN Color Additive Status List 3", "US FDA CFSAN Color Additive Status List 7", "US Toxic Substances Control Act (TSCA) - Inventory"

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out and shall be available at the time of REACH registration.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Product safety department.· **Contact:**

Tel : 022- 23525257, 23510572 66661415

Fax : 23523945 /66626916

Email ID: info@neelikon.com· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

• **Sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

<http://ecb.jrc.ec.europa.eu/esis/>

http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

CHEMID PLUS:

<http://chem.sis.nlm.nih.gov/chemidplus/ProxyServlet?objectHandle=Search&actionHandle=getAll3DMViewFiles&nextPage=jsp%2Fcommon%2FChe>

[mFull.jsp%3FcalledFrom%3Dlite&chemid=0000128803&formatType= 3D](http://www.sigmaldrich.com/catalog/DisplayMSDSContent.do)

<http://www.sigmaldrich.com/catalog/DisplayMSDSContent.do>

SCBT MSDS: <http://datasheets.scbt.com/sc-215894.pdf>

<http://www.chemicaland21.com/specialtychem/finechem/QUINIZARINE%20GREEN%20SS.htm>

ECHA website

<http://apps.echa.europa.eu/registered/data/dossiers/DISS-d38d5646-32d7-2a03-e044-00144f67d249/AGGR-4f88b272-8805-4323-953b-807f94671292> DISS-d38d5646-32d7-2a03-e044-00144f67d249.html

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• *** Data compared to the previous version altered.**

Section 3 – Composition /information on ingredients.

Section 4 - First Aid Measures

Section 5 - Fire Fighting Measures

Section 6 - Accidental Release Measures

Section 7 - Handling and Storage

Section 8 - Exposure Controls / Personal Protection

Section 9 - Physical & Chemical Properties

Section 10 – Stability and reactivity

Section 11 - Toxicological Information

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Section 15 - Regulatory Information