

**COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006**

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

· **1.1 Product identifier**

· **Trade name:** *Neelicert FD & C Blue 1*

· **CAS Number:**

*3844-45-9*

· **EC number:**

*223-339-8*

· **Registration number** *01-2120740569-45-0008*

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Life cycle stages**

*IS Use at industrial Sites*

*PW Widespread use by professional workers*

*C Consumer use*

· **Sector of Use**

*SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU4 Manufacture of food products*

*SU8 Manufacture of bulk, large-scale chemicals (including petroleum products)*

*SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)*

*SU21 Consumer uses: Private households / general public / consumers*

*SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)*

· **Product category**

*PC 1 Adhesives, sealants.*

*PC8 Biocidal products.*

*PC 9a Coatings and paints, thinners, paint removes.*

*PC9b Fillers, putties, plasters, modelling clay.*

*PC 9c Finger paints.*

*PC13 Fuels.*

*PC 18 Ink and toners.*

*PC 21 Laboratory chemicals.*

*PC 23 Leather treatment products.*

*PC 24 Lubricants, greases, release products.*

*PC 25 Metal working fluids.*

*PC 26 Paper and board treatment products.*

*PC 24 Lubricants, greases, release products*

*PC 25 Metal working fluids.*

*PC27 Plant protection products.*

*PC28 Perfumes, fragrances.*

*PC29 Pharmaceuticals.*

*PC31 Polishes and wax blends.*

*PC 34 Textile dyes, and impregnating products.*

*PC 35 Washing and cleaning products.*

*PC 39 Cosmetics, personal care products.*

*PC 0: Other. Colouring agents, pigments.*

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· **Process category**

*PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.*

*PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4*

*Chemical production where opportunity for exposure arises*

*PROC5 Mixing or blending in batch processes*

*PROC7 Industrial spraying*

*PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities*

*PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)*

*PROC11 Nonindustrial spraying*

*PROC14 Tableting, compression, extrusion, pelletisation, granulation*

*PROC15 Use as laboratory reagent*

*PROC28 Manual maintenance (cleaning and repair) of machinery*

· **Environmental release category**

*ERC1 Manufacture of the substance*

*ERC3 Formulation into solid matrix*

*ERC5 Use at industrial site leading to inclusion into/onto article*

*ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article) ERC7 Use of functional fluid at industrial site*

*ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)*

*ERC8c Widespread use leading to inclusion into/onto article (indoor)*

*ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article).*

· **Article category**

*AC1 Vehicles*

*AC2 Machinery, mechanical appliances, electrical/electronic articles*

*AC4 Stone, plaster, cement, glass, and ceramic articles*

*AC5 Fabrics, textiles, and apparel*

*AC6 Leather articles*

*AC8 Paper articles*

*AC10 Rubber articles*

*AC30 Other articles with intended release of substances*

· **Application of the substance / the mixture**

*It is a colorant for foods and other substances to induce a color change. manufacturing of the substance.*

· **1.3 Details of the supplier of the safety data sheet**

· Windy Point Soap Making Supplies Inc.

14, 6125-12th Street SE

Calgary, AB T2H 2K1

· 587-318-6678

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· **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**  
The substance is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** No pictogram
- **Signal word** No signal word
- **Hazard statements** Not applicable
- **2.3 Other hazards** The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100
- **Results of PBT and vPvB assessment**
- **PBT:** The substance is not PBT.
- **vPvB:** The substance is not vPvB.

## SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**  
3844-45-9 Neelicert FD & C Blue 1
- **Identification number(s)**
- **EC number:** 223-339-8
- **Additional information:**  
Molecular Formula: C<sub>37</sub>H<sub>34</sub>Na<sub>2</sub>N<sub>2</sub>O<sub>9</sub>S<sub>3</sub>  
Molecular Weight: 792.86 g/mol  
Synonyms: C.I. Acid Blue 9, FD&C Blue No. 1, Acid Blue

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*IUPAC name: dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)]amino]-2'-sulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene](3-sulphonatobenzyl)ammonium, disodium salt*

- **SVHC** the substance is not listed in current SVHC list.

#### **SECTION 4: First aid measures**

##### · **4.1 Description of first aid measures**

###### · **General information:**

*First aid personnel should pay attention to their own safety.*

*Move out of dangerous area*

###### · **After inhalation:**

*After inhalation of greater quantities of dust, take affected person to fresh air.*

*Encourage patient to blow nose to ensure clear passage of breathing.*

###### · **After skin contact:**

*Generally, the product does not irritate the skin.*

*In case of contact with skin, clean with soap and water.*

###### · **After eye contact:**

*Check and remove contact lenses, if present and easy to do.*

*Eyelids should be held away from the eyeball to ensure thorough rinsing.*

*Rinse opened eye for several minutes under running water.*

###### · **After swallowing:**

*Do not induce vomiting*

*Drink plenty of water.*

###### · **Information for doctor:** *Treat symptomatically and supportively.*

##### · **4.2 Most important symptoms and effects, both acute and delayed**

*No further relevant information available.*

##### · **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:**

*Use fire extinguishing methods suitable to surrounding conditions.*

*Use water spray, Class A foam, dry chemical.*

###### · **For safety reasons unsuitable extinguishing agents:**

*water with full jet.*

*Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.*

##### · **5.2 Special hazards arising from the substance or mixture**

*In case of fire, the following can be released:*

*Nitrogen oxides (NOx)*

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Carbon monoxide (CO)

Sulphur dioxide (SO<sub>2</sub>)

Carbon dioxide (CO<sub>2</sub>)

· **5.3 Advice for firefighters**

Use standard fire fighting procedures.

If safe to do so, remove containers from path of fire.

Use water delivered as a fine spray to control fire and cool adjacent area.

· **Protective equipment:**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Avoid formation of dust.

· **6.2 Environmental precautions:**

Do not discharge into drains, water courses or onto the ground.

Inform respective authorities in case of seepage into water course or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Prevent further leakage or spillage if safe to do so. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Do not let product enter drains.

· **6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

See Section 7 for information on safe handling.

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Any unavoidable deposit of dust must be regularly removed.

Avoid contact with eyes.

Follow good manufacturing practices for housekeeping and personal hygiene.

Provide appropriate exhaust ventilation at places where dust is formed.

· **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:**

Check all containers are clearly labelled and free from leaks.

Store in ambient temperature and dry Place. Keep container close while not in use.

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

*keep away from food materials*

*Store away from reducing agents.*

*Store away from oxidising agents.*

· **Further information about storage conditions:**

*Check regularly for leaks.*

*To maintain product quality, do not store in heat or direct sunlight.*

*Keep container tightly sealed.*

· **7.3 Specific end use(s)** *No further relevant information available.*

## **SECTION 8: Exposure controls/personal protection**

· **8.1 Control parameters**

· **Additional information about design of technical facilities:** *No further data; see item 7.*

· **Ingredients with limit values that require monitoring at the workplace:** *Not required.*

· **DNELs**

*Hazard conclusions for Workers:*

*Inhalation*

*Systemic effects - Long-term: Hazard unknown (no further information necessary as no exposure expected)*

*Systemic effects - Short-term: Hazard unknown (no further information necessary as no exposure expected)*

*Local effects - Long-term: Hazard unknown (no further information necessary as no exposure expected)*

*Local effects - Short-term: Hazard unknown (no further information necessary as no exposure expected)*

*Dermal*

*Systemic effects - Long-term: No hazard identified*

*Systemic effects - Short-term: No hazard identified*

*Local effects - Long-term: No hazard identified*

*Local effects - Short-term: No hazard identified*

*Hazard conclusions for the general population:*

*Oral*

*Systemic effects - Long-term: 6 mg/kg bw/day*

*Systemic effects - Short-term: No hazard identified*

*Dermal*

*Systemic effects - Long-term: No hazard identified*

*Systemic effects - Short-term: No hazard identified*

*Local effects - Long-term: No hazard identified*

*Local effects - Short-term: No hazard identified*

*Inhalation*

*Systemic effects - Long-term: Hazard unknown (no further information necessary as no exposure expected)*

**Trade name: Neelicert FD & C Blue 1**

*Systemic effects - Short-term: Hazard unknown (no further information necessary as no exposure expected)*

*Local effects - Long-term: Hazard unknown (no further information necessary as no exposure expected)*

*Local effects - Short-term: Hazard unknown (no further information necessary as no exposure expected)*

· **PNECs**

*Freshwater: No hazard identified*

*Intermittent releases (freshwater): No hazard identified*

*Marine water: No hazard identified*

*Intermittent releases (marine water): No hazard identified*

*Sewage treatment plant (STP): No hazard identified*

*Sediment (freshwater): No data available*

*Sediment (marine water): No data available*

*Air: No hazard identified*

*Soil: No hazard identified*

*Hazard for Predators (Secondary poisoning): No potential for bioaccumulation*

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

*Good personal hygiene practices should be followed.*

*Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.*

*Keep away from foodstuffs, beverages and feed.*

*The usual precautionary measures are to be adhered to when handling chemicals.*

· **Respiratory protection:**

*Good ventilation is desirable and respiratory protection during dust formation.*

· **Protection of hands:**



*Protective gloves*

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

· **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.*

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· **Eye protection:**



*Tightly sealed goggles*

*Tightly fitting safety goggles (splash goggles) (e.g. EN 166)*

· **Body protection:** *Standard work wear and safety boots for normal handling and use.*

### SECTION 9: Physical and chemical properties

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

· **General Information**

· <b>Appearance:</b>	<i>Solid</i>
· <b>Form:</b>	<i>Powder</i>
· <b>Colour:</b>	<i>Reddish Blue</i>
· <b>Odour:</b>	<i>Characteristic</i>

· **pH-value:** *4 – 6.5( 1% Solution in Water )*

· **Change in condition**

· <b>Melting point/freezing point:</b>	<i>Not applicable.</i>
· <b>Initial boiling point and boiling range:</b>	<i>Not applicable.</i>

· **Flash point:** *The flash point is only a relevant property for liquids; thus, it does not need to be done for substances that are solids or gases at room temperature.*

· **Flammability (solid, gas):** *Product is not flammable.*

· **Decomposition temperature:** *> 281 °C*

· **Auto-ignition temperature:** *Not self-ignited up to 400 degree C*

· **Explosive properties:** *Product does not present an explosion hazard.*

· **Explosion limits:**

· <b>Upper:</b>	
· <b>Oxidising properties</b>	<i>Non oxidising</i>

· **Vapour pressure:** *Vapour pressure value could not be determined as the substance decomposes.*

· **Bulk Density:** *0.6-0.8 g/cm<sup>3</sup>(After tapping)*



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· <b>Solubility in / Miscibility with water at 23 °C:</b>	135.0 g/l
· <b>Partition coefficient: n-octanol/water at 23 °C:</b>	<-6.4 log POW (OECD TG 105)
· <b>Viscosity: Dynamic:</b>	Not applicable.
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No hazardous reactions if stored and handled as prescribed/indicated.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
No thermal effect on test substance found below 150°C thus the test substance is considered stable at room temperature.
- **10.3 Possibility of hazardous reactions**  
The product may contain explosive fine dust, or such dust may be produced by abrasion during transport or product transfer.  
The product is stable if stored and handled as prescribed/indicated.
- **10.4 Conditions to avoid** Heat, flame, and other sources of ignition
- **10.5 Incompatible materials:**  
Oxidizing agents  
Reducing agent.
- **10.6 Hazardous decomposition products:**  
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Sodium oxides

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data; the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

Oral	LD50	>2000 mg/kg bw (rat) (OECD Guideline 401)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Skin irritation occurred in 40 of 207 volunteers following 48-hour covered application of test substance. Only a summary and not the full report was available for evaluation. Thus it is insufficient to classify the substance as skin irritant.

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· **Serious eye damage/irritation**

Transient eye irritation occurred in rabbits treated (over a 4-week period) with 40 x 0.2 ml applications of a 10% aqueous suspension of either Brilliant Blue or its lake. Only a summary, and not the full report, was available for evaluation. Thus substance can not be classified as eye irritant.

· **Respiratory or skin sensitisation**

The stimulation indices were less than 3 at all tested concentrations, hence an EC3 value could not be calculated, and the test substance was classified as non-sensitizing in the vehicles tested.

· **Additional toxicological information:**

· **Toxicokinetics, metabolism and distribution**

The substance is taken up by the body after ingestion at a very low extent and only after high doses (eg 1900 mg/kg bw) as indicated by green coloration of the urine of experimental animals in the acute toxicity study. It is eliminated mainly via the bile and to a lesser extent via the urine. At low doses with 14-C-labelled material, absorption is generally below the limit of detection.

High oral doses cause diarrhea as the presence of an ionic, water-soluble substance results in water retention in the large intestine.

· **Repeated dose toxicity**

The NOAEL for chronic oral exposure in rats is 631 mg/kg bw. Therefore, no serious irreversible effects are present at dose levels of less than 50 mg/kg bw upon subchronic exposure. As a result, the substance is not considered to be classified for repeated dose toxicity

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

The substance is not carcinogenic, non-mutagenic and nontoxic for reproduction.

· **Germ cell mutagenicity**

CAS 3844-45-9 was tested in a valid GLP compliant Ames test following OECD guideline 471 (CIT 2005). Tester strains Salmonella typhimurium TA 98, 100, 1535, 1537 and 102 as well as E. coli WP2 uvrA were used. Water was used as a vehicle. A moderate to marked coloration was observed in the Petri plates when scoring the revertants at all dose-levels. This coloration made the plates unreadable at dose-levels > 1 mg/plate. No noteworthy toxicity was noted towards the strains used, with and without S9 mix. No precipitate was observed in the Petri plates when scoring the revertants at all dose-levels. No increase in the mutant frequency was observed.

· **Carcinogenicity**

No carcinogenic effects were observed at dose levels exceeding the limit dose in life-long feeding studies in rats and mice. As a result, the substance is not considered to be classified for carcinogenicity

· **Reproductive toxicity**

NOAEL: 1072 mg/kg bw/day

the test substance was tested for OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study) in rats. Examinations on offspring performed after 12 months and at the end of lifetime exposure. The F1 generation developed normally during their lifetime. In females, exposure of 2% in the diet caused effects on body weight gain and survival rate after 90 - 102 weeks of treatment, males were not affected. F1 animals showed no histopathology findings in the gonads or other organs.

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- **STOT-single exposure** No further relevant information available.
- **STOT-repeated exposure**  
Dose descriptor groups:  
NOAEL: ≥ 2 (actual dose: 1000 mg/kg bw) & 1 (630 mg/kg bw) other: % in the diet  
Mortality: no mortality observed  
Body weight and weight changes: effects observed, treatment-related  
Description (incidence and severity): high dose group females starting week 102.  
Food consumption and compound intake (if feeding study): effects observed, treatment-related.  
Description (incidence and severity): slightly increased at the high dose group  
15% reduction in body weight (body weight affected after week 102).  
After week 90, mean body weights of the 2.0% females began a steady downward trend that was statistically significant ( $P < 0.01$ ) from week 102 until the end of the study.
- **Aspiration hazard** No further relevant information available.
- **11.2 Information on other hazards**
- **11.2.1 Endocrine disrupting properties:** The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100
- **11.2.2 Information on other hazard:** No further information is available.

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

EC50 (48 h) (static)	>100 mg/L ( <i>Daphnia magna</i> ) (EU Method C.2)
LC50 (96 h)	>220 - <460 mg/L ( <i>Leuciscus idus</i> (Fish, fresh water)) (according to DIN 38412 part 11)
EC50	> 100 mg/L ( <i>Chlorella vulgaris</i> ) (OECD Guideline 201)

### · 12.2 Persistence and degradability

The test substance is not readily biodegradable

A GLP guideline study according to OECD 301B has been conducted. Activated sludge from a municipal sewage plant was exposed for 28 d and the CO<sub>2</sub>-Evolution was determined. After 28 d the biodegradation was determined to be < 10%. Therefore, the test substance is not readily biodegradable.

### · 12.3 Bioaccumulative potential

No further information is available.

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- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Must not reach sewage water or drainage ditch undiluted or unnaturalized.  
Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** The substance is not PBT.
- **vPvB:** The substance is not vPvB.
- **12.6 Endocrine disrupting properties:** The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100
- **12.7 Other adverse effect:** No further information is available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must be sent to a suitable incineration plant, observing local regulations.  
Offer surplus and non-recyclable solutions to a licensed disposal company. 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:**  
Dispose of packaging according to regulations on the disposal of packaging.

### SECTION 14: Transport information

- |   |               |
|---|---------------|
| · <b>14.1 UN-Number</b><br>· <b>ADR, ADN, IMDG, IATA</b>                                    | Not regulated |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, ADN, IMDG, IATA</b>                      | Not regulated |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Class</b> | Not regulated |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                     | Not regulated |
| · <b>14.5 Environmental hazards:</b><br>· <b>Marine pollutant:</b>                          | No            |

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· **14.6 Special precautions for user** Not applicable.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **UN "Model Regulation":** Not regulated

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Labelling according to Regulation (EC) No 1272/2008** Not applicable

· **Hazard pictograms** No pictogram

· **Signal word** No signal word

· **Hazard statements** Not applicable

· **Other regulations, limitations and prohibitive regulations**

Australia-AIIC: Listed

China-IECSC: Listed

Canada-DSL: Listed

US-EPA TSCA: Listed

EU-EINECS: Listed

Taiwan-TCSI: Listed

Philippines-PICCS: Listed New

Zealand-NZIoC: Listed Turkish

Chemical Inventory: Listed Korea

KE-Number: KE-13703

Vietnam National Chemical Inventory (Draft): Listed

US-FDA - Color Additive Status List: Listed

Mexico - National Inventory of Chemical Substances: Listed

EU - Regulation No.1333/2008 - Part B - List of Food Additives: Listed

Japan Food Sanitation Law - List of Designated Additives: Listed

· **Substances of very high concern (SVHC) according to REACH, Article 57**  
the substance is not listed in current SVHC list.

· **15.2 Chemical safety assessment:**

Exposure assessment not required as substance is not classified as dangerous.

**Trade name: Neelicert FD & C Blue 1**

### **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.*

· **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)*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organisation*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)*

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

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

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*SVHC: Substances of Very High Concern*

*vPvB: very Persistent and very Bioaccumulative*

· **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 COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No. 1907/2006*

• *Data from ECHA Dossier CAS 3844-45-9:*

<https://echa.europa.eu/registration-dossier/-/registered-dossier/20547/1>

• *Data from Toxplanet:*

<https://chemical-search.toxplanet.com//product-search/listexpert/ei-fts-search/23c8fd7f-253f-4f59-b533-e01c500e7383>

• *Data from Comptox:*

<https://comptox.epa.gov/dashboard/chemical/details/DTXSID2020189>

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- **\* Data compared to the previous version altered.**
- *Section 1: Identification of the substance/mixture and of the company/undertaking*
- *Section 2: Hazard Identification*
- *Section 9: Physical and Chemical properties.*
- *Section 11: Toxicological Information.*
- *Section 12: Ecological Information*