

# Technical Data

## Product Specification



<b>Product Code</b>	<b>FDC-B2P</b>
<b>Product Description</b>	<b>FD&amp;C Blue #2</b>
<b>Common Name</b>	Indigo Carmine
<b>Chemical Name</b>	Principally the disodium salt of 2-(1,3-dihydro-3-oxo-5-sulfo-2 <i>H</i> -indol-2-ylidene)-2,3-dihydro-3-oxo-1 <i>H</i> -indole-5-sulfonic acid with smaller amounts of the disodium salt of 2-(1,3-dihydro-3-oxo-7-sulfo-2 <i>H</i> -indol-2-ylidene)-2,3-dihydro-3-oxo-1 <i>H</i> -indole-5-sulfonic acid and the sodium salt of 2-(1,3-dihydro-3-oxo-2 <i>H</i> -indol-2-ylidene)-2,3-dihydro-3-oxo-1 <i>H</i> -indole-5-sulfonic acid.
<b>Function</b>	Food colorant
<b>CI Number</b>	73015
<b>CI Name</b>	Food Blue 1
<b>CAS Number</b>	860-22-0
<b>EINECS Number</b>	212-728-8
<b>EC Number</b>	E132
<b>Specifications</b>	Every batch of this product is individually tested and certified by FDA to confirm compliance with the specifications outlined in the <i>Code of Federal Regulations, Title 21, Parts 70-82</i> . The FDA certification lot number shows on every product label. Additionally the product complies with EC Directive 95/45/EC and FAO52/1 or 52/2 of the WHO/FAO.
<b>Pure Dye Content</b>	85% minimum
<b>Physical Appearance</b>	Water-soluble dark blue powder with a characteristic denim blue hue when viewed in a 10ppm aqueous solution.
<b>Packaging</b>	Standard packaging is 25-kg units packed in polyethylene-lined corrugated cartons. Custom packaging is available upon request with minimum order requirements.
<b>Storage</b>	Product is hygroscopic and should be stored in tightly sealed containers at temperatures below 120°F.
<b>Shelf Life</b>	Eight years from date of manufacture.
<b>Kosher Status</b>	Product is kosher certified.

20160928

# SAFETY DATA SHEET



Revision Date 13-May-2016  
Version 4

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name Viveri™ FD&C Blue 2 Powder  
Product code FDC-B2P

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

Recommended Use Food additive  
Restrictions on use No information available

### 1.3 Details of the supplier of the safety data sheet

Supplier Viveri™ Food Colors  
4515 St. Clair Avenue  
Cleveland, OH 44103  
(216) 391-8050  
+1 216-391-8050 (outside the US)  
This telephone number is available during office hours only.

E-mail Address info@viverifoodcolors.com

### 1.4 Emergency telephone number

Emergency telephone number Chemtrec: +1 703-527-3887 ex-USA  
Chemtrec: 1-800-424-9300 USA

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200

Acute toxicity - Oral	Category 4
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### 2.2 Label elements

#### Signal Word

Warning

#### Hazard Statements

Harmful if swallowed



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**2.3. Other Hazards Hazards not otherwise classified (HNOC)**

Not Applicable

**2.4 Other information**

Not Applicable

**3. Composition/Information on Ingredients****Substance****Mixture****4. First aid measures****4.1 Description of first-aid measures**

<b>General advice</b>	No information available.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin contact</b>	Immediate medical attention is not required. Wash off with soap and water.
<b>Inhalation</b>	Immediate medical attention is not required. Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Consult a physician.

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

**Symptoms** See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically.

**5. Fire-Fighting Measures****5.1 Extinguishing media****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None.

**5.2 Special hazards arising from the substance or mixture****Special Hazard**

None known based on information supplied

**Hazardous Combustion Products** Carbon oxides. Nitrogen oxides (NOx).

#### **Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### **5.3 Advice for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **6. Accidental Release Measures**

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

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment.

### **6.2 Environmental precautions**

Dust deposits should not be allowed to accumulate on surfaces as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., cleaning dusty surfaces with compressed air). Nonsparking tools should be used. Prevent product from entering drains. See Section 12 for additional Ecological information.

### **6.3 Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent dust cloud. Cover powder spill with plastic sheet or tarp to minimize spreading.

**Methods for cleaning up** Avoid dust formation. Take precautionary measures against static discharges. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Use personal protective equipment. Take up mechanically and collect in suitable container for disposal. Prevent product from entering drains. Keep in suitable and closed containers for disposal.

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

**Advice on safe handling** Avoid dust formation. Take precautionary measures against static discharges. Fine dust dispersed in air may ignite. Wear personal protective equipment.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

### **7.2 Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep tightly closed in a dry and cool place.

**Materials to Avoid** No materials to be especially mentioned.

## **8. Exposure controls/personal protection**

### **8.1 Exposure Guidelines**

### **8.2 Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

### **8.3 Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin and body protection</b>	Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.
<b>Respiratory protection</b>	. NIOSH/MSHA approved respiratory protection should be worn if exposure is anticipated.
<b>Hygiene measures</b>	See section 7 for more information

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	Powder
<b>Color</b>	dark blue
<b>Odor</b>	Mild
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
<b>pH</b>		No information available
<b>Melting/freezing point</b>	> 300 °C	
<b>Boiling point/boiling range</b>		No information available
<b>Flash Point</b>		No information available
<b>Evaporation rate</b>		No information available
<b>Flammability (solid, gas)</b>		No information available
<b>Flammability Limits in Air</b>		
upper flammability limit		No information available
lower flammability limit		No information available
<b>Vapor pressure</b>		No information available
<b>Vapor density</b>		No information available
<b>Specific Gravity</b>	1.35	
<b>Water solubility</b>	10000 g/l	
<b>Solubility in other solvents</b>		No information available
<b>Partition coefficient</b>	-3.57 log POW	
<b>Autoignition temperature</b>		No information available
<b>Decomposition temperature</b>		No information available
<b>Viscosity, kinematic</b>		No information available
<b>Viscosity, dynamic</b>		No information available
<b>Explosive properties</b>		No information available
<b>Oxidizing Properties</b>		No information available

### 9.2 Other information

**Volatile organic compounds (VOC) content** None

## 10. Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use

### 10.2 Chemical stability

Stable

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to Avoid

Dust formation. Take precautionary measures against static discharges.

### **10.5 Incompatible Materials**

None known based on information supplied.

### **10.6 Hazardous Decomposition Products**

None known based on information supplied.

## **11. Toxicological information**

### **11.1 Acute toxicity**

#### **Numerical measures of toxicity: Product Information**

**LD50 Oral:**  
2,000 mg/kg (rat)

#### **Numerical measures of toxicity: Component Information**

### **11.2 Information on toxicological effects**

#### **Skin corrosion/irritation**

##### Product Information

- Irritating to skin

##### Component Information

- No information available

#### **Serious eye damage/eye irritation**

##### Product Information

- Irritating to eyes

##### Component Information

- No information available

#### **Respiratory or skin sensitization**

##### Product Information

- No known significant effects or critical hazards.

##### Component Information

- No information available

#### **Germ cell mutagenicity**

##### Product Information

- No information available

##### Component Information

- No information available

#### **Carcinogenicity**

##### Product Information

- Contains no ingredient listed as a carcinogen

##### Component Information

- No information available

#### **Reproductive toxicity**

##### Product Information

- No information available

##### Component Information

- No information available

**STOT - single exposure**

No information available

**STOT - repeated exposure**

- No known effect

**Other adverse effects**Product Information

- No information available

Component Information

- No information available

**Aspiration hazard**Product Information

- No information available

Component Information

- No information available

**12. Ecological information****12.1 Toxicity****Ecotoxicity**

No information available

100 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Ecotoxicity effects****12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

Discharge into the environment must be avoided

**12.4 Mobility in soil**

No information available.

**12.5 Other adverse effects**

No information available

**13. Disposal Considerations****13.1 Waste treatment methods**

Dispose of in accordance with federal, state, and local regulations.

**14. Transport Information****DOT** Not regulated**MEX** Not regulated**IMDG** Not regulated**IATA** Not regulated

## 15. Regulatory information

### 15.1 International Inventories

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

### 15.2 U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### 15.3 Pesticide Information

Not applicable

### 15.4 U.S. State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

## 16. Other information

<b><u>NFPA</u></b>	<b>Health Hazard -</b>	<b>Flammability -</b>	<b>Instability -</b>	<b>Physical and chemical hazards -</b>
<b><u>HMIS</u></b>	<b>Health Hazard 2</b>	<b>Flammability 1</b>	<b>Physical Hazard 0</b>	<b>Personal protection X</b>

#### **Legend:**

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*Ceiling (C)*

*DOT (Department of Transportation)*

*EPA (Environmental Protection Agency)*

*IARC (International Agency for Research on Cancer)*

*International Air Transport Association (IATA)*

*International Maritime Dangerous Goods (IMDG)*

*NIOSH (National Institute for Occupational Safety and Health)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*PEL (Permissible Exposure Limit)*

*Reportable Quantity (RQ)*

*Skin designation (S\*)*



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*STEL (Short Term Exposure Limit)*

*TLV® (Threshold Limit Value)*

*TWA (time-weighted average)*

**Prepared By** DayGlo Color Corp.  
Regulatory Affairs/Product Safety

**Revision Date** 13-May-2016

**Revision Note**  
No information available

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**