

# Technical Data

## Product Specification



<b>Product Code</b>	<b>FDC-LY5LD</b>
<b>Product Description</b>	<b>FD&amp;C Yellow #5 Lake - Low Dye</b>
<b>Common Name</b>	Tartrazine Aluminum Lake
<b>Chemical Name</b>	Principally the trisodium salt of 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[4-sulfophenyl-azo]-1H-pyrazole-3-carboxylic acid adsorbed onto a substrate of alumina hydrate.
<b>Function</b>	Food colorant
<b>CI Number</b>	19140:1
<b>CI Name</b>	Food Yellow 4:1
<b>CAS Number</b>	12225-21-7
<b>EINECS Number</b>	235-428-9
<b>EC Number</b>	E102
<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>	15-18%
<b>Physical Appearance</b>	Fine, yellow, water-insoluble powder.
<b>Packaging</b>	Standard packaging is in 12.5-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>	Six years from date of manufacture.
<b>Kosher Status</b>	Product is kosher certified.

20160927

# Technical Data

## Product Specification



<b>Product Code</b>	<b>FDC-LY5MD</b>
<b>Product Description</b>	<b>FD&amp;C Yellow #5 Lake - Mid Dye</b>
<b>Common Name</b>	Tartrazine Aluminum Lake
<b>Chemical Name</b>	Principally the trisodium salt of 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[4-sulfophenyl-azo]-1H-pyrazole-3-carboxylic acid adsorbed onto a substrate of alumina hydrate.
<b>Function</b>	Food colorant
<b>CI Number</b>	19140:1
<b>CI Name</b>	Food Yellow 4:1
<b>CAS Number</b>	12225-21-7
<b>EINECS Number</b>	235-428-9
<b>EC Number</b>	E102
<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>	23-27%
<b>Physical Appearance</b>	Fine, yellow, water-insoluble powder.
<b>Packaging</b>	Standard packaging is in 12.5-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>	Six years from date of manufacture.
<b>Kosher Status</b>	Product is kosher certified.

20160927

# Technical Data

## Product Specification



<b>Product Code</b>	<b>FDC-LY5HD</b>
<b>Product Description</b>	<b>FD&amp;C Yellow #5 Lake - High Dye</b>
<b>Common Name</b>	Tartrazine Aluminum Lake
<b>Chemical Name</b>	Principally the trisodium salt of 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[4-sulfophenyl-azo]-1H-pyrazole-3-carboxylic acid adsorbed onto a substrate of alumina hydrate.
<b>Function</b>	Food colorant
<b>CI Number</b>	19140:1
<b>CI Name</b>	Food Yellow 4:1
<b>CAS Number</b>	12225-21-7
<b>EINECS Number</b>	235-428-9
<b>EC Number</b>	E102
<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>	38-42%
<b>Physical Appearance</b>	Fine, yellow, water-insoluble powder.
<b>Packaging</b>	Standard packaging is in 12.5-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>	Six years from date of manufacture.
<b>Kosher Status</b>	Product is kosher certified.

20160927



# 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 Yellow 5 Lake LD  
Product code FDC-LY5LD

### 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

### 2.2 Label elements

This product is not classified.

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

Not Applicable

### 2.4 Other information

Not Applicable

### 3. Composition/Information on Ingredients

#### Substance

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight %
FD&C Yellow 5 Lake	12225-21-7	90 - 100

### 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

<b>Symptoms</b>	See Section 2.2, Label Elements and/or Section 11, Toxicological effects.
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#### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	Treat symptomatically.
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### 5. Fire-Fighting Measures

#### 5.1 Extinguishing media

##### **Suitable extinguishing media**

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

<b>Unsuitable Extinguishing Media</b>	None.
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#### 5.2 Special hazards arising from the substance or mixture

##### **Special Hazard**

None known based on information supplied

<b>Hazardous Combustion Products</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).
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##### **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.

### 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

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and body protection** Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.

**Respiratory protection** . NIOSH/MSHA approved respiratory protection should be worn if exposure is anticipated.

**Hygiene measures** See section 7 for more information

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Powder
Color	Yellow
Odor	Mild
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	4-6	
Melting/freezing point		No information available
Boiling point/boiling range		No information available
Flash Point		No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity	0.20 - 0.70	
Water solubility	0.9788 mg/l	
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

### 9.2 Other information

Volatile organic compounds (VOC) None  
content

## 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

- Not a dermal irritant

##### 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 information available

- 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 components(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****TSCA**

Complies

**DSL**

Complies

**EINECS/ELINCS**

Complies

<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	-

**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 1</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\*)*

*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**



# 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 Yellow 5 Lake MD  
Product code FDC-LY5MD

### 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

### 2.2 Label elements

This product is not classified.

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

Not Applicable

### 2.4 Other information

Not Applicable

### 3. Composition/Information on Ingredients

#### Substance

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight %
FD&C Yellow 5 Lake	12225-21-7	90 - 100

### 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

<b>Symptoms</b>	See Section 2.2, Label Elements and/or Section 11, Toxicological effects.
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#### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	Treat symptomatically.
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### 5. Fire-Fighting Measures

#### 5.1 Extinguishing media

##### **Suitable extinguishing media**

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

<b>Unsuitable Extinguishing Media</b>	None.
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#### 5.2 Special hazards arising from the substance or mixture

##### **Special Hazard**

None known based on information supplied

<b>Hazardous Combustion Products</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).
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##### **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.

### 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

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and body protection** Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.

**Respiratory protection** . NIOSH/MSHA approved respiratory protection should be worn if exposure is anticipated.

**Hygiene measures** See section 7 for more information

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Powder
Color	Yellow
Odor	Mild
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	4-6	
Melting/freezing point		No information available
Boiling point/boiling range		No information available
Flash Point		No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity	0.20 - 0.70	
Water solubility	0.9788 mg/l	
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		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

- Not a dermal irritant

##### 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 information available

- 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 components(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****TSCA**

Complies

**DSL**

Complies

**EINECS/ELINCS**

Complies

<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	-

**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 1</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\*)*

*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**



# 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 Yellow 5 Lake HD  
Product code FDC-LY5HD

### 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

### 2.2 Label elements

This product is not classified.

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

Not Applicable

### 2.4 Other information

Not Applicable

### 3. Composition/Information on Ingredients

#### Substance

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight %
FD&C Yellow 5 Lake	12225-21-7	90 - 100

### 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

<b>Symptoms</b>	See Section 2.2, Label Elements and/or Section 11, Toxicological effects.
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#### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	Treat symptomatically.
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### 5. Fire-Fighting Measures

#### 5.1 Extinguishing media

##### **Suitable extinguishing media**

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

<b>Unsuitable Extinguishing Media</b>	None.
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#### 5.2 Special hazards arising from the substance or mixture

##### **Special Hazard**

None known based on information supplied

<b>Hazardous Combustion Products</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ).
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##### **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.

### 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

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and body protection** Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.

**Respiratory protection** . NIOSH/MSHA approved respiratory protection should be worn if exposure is anticipated.

**Hygiene measures** See section 7 for more information

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Powder
Color	Yellow
Odor	Mild
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	4-6	
Melting/freezing point		No information available
Boiling point/boiling range		No information available
Flash Point		No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		No information available
lower flammability limit		No information available
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity	0.20 - 0.70	
Water solubility	0.9788 mg/l	
Solubility in other solvents		No information available
Partition coefficient		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties		No information available
Oxidizing Properties		No information available

### 9.2 Other information

Volatile organic compounds (VOC) None  
content

## 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

- Not a dermal irritant

##### 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 information available

- 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 components(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****TSCA**

Complies

**DSL**

Complies

**EINECS/ELINCS**

Complies

<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	-

**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 1</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\*)*

*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

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