# Technical Data Product Specification



FOOD COLORS

Product Code FDC-Y5P

Product Description FD&C Yellow #5

Common Name Tartrazine

Chemical Name Principally the trisodium salt of 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[4-

sulfophenyl-azo]-1*H* -pyrazole-3-carboxylic acid.

**Function** Food colorant

CI Number 19140

CI Name Food Yellow 4
CAS Number 1934-21-0
EINECS Number 217-699-5
EC Number E102

**Specifications** Every batch of this product is individually tested and certified by FDA to

confirm compliance with the specifications outlined in the *Code of Federal Regulations, Title 21, Parts 70-82.* 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.

Pure Dye Content 89% minimum

**Physical Appearance** Water-soluble yellowish-orange powder with a characteristic yellow hue

when viewed in a 10 ppm aqueous solution.

Packaging Standard packaging is 25-kg units packed in polyethylene-lined

corrugated cartons. Custom packaging is available upon request with

minimum order requirements.

**Storage** Product is hygroscopic and should be stored in tightly sealed containers

at temperatures below 120°F.

**Shelf Life** Eight years from date of manufacture.

**Kosher Status** Product is kosher certified.

20160817

# 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 Powder

Product code FDC-Y5P

#### 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<sup>™</sup> 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	1934-21-0	90 - 100

## 4. First aid measures

#### 4.1 Description of first-aid measures

General advice No information available.

Eye contact 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.

**Skin contact** Immediate medical attention is not required. Wash off with soap and water.

**Inhalation** Immediate medical attention is not required. Move to fresh air.

Ingestion 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.

## 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

No information available **Odor Threshold** 

Remarks • Methods **Property** Values

No information available рΗ

Melting/freezing point 350 °C

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

No information available upper flammability limit lower flammability limit No information available Vapor pressure No information available Vapor density No information available

**Specific Gravity** 1.93

Water solubility

10000 g/l Solubility in other solvents

**Partition coefficient** -10.17 log POW

**Autoignition temperature** No information available No information available **Decomposition temperature** 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

No information available

#### 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:

12,750 mg/kg (mouse)

Numerical measures of toxicity: Component Information

#### 11.2 Information on toxicological effects

## Skin corrosion/irritation

Product Information

May cause irritation

Component Information

No information available

## Serious eye damage/eye irritation

**Product Information** 

· May cause eye irritation

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

DOTNot regulatedMEXNot regulated

IMDG Not regulated

IATA Not regulated

## 15. Regulatory information

## 15.1 International Inventories

TSCA Complies
DSL Complies
EINECS/ELINCS Complies

**ENCS** Complies Complies **IECSC** Complies **KECL** Complies **PICCS AICS** Complies **NZIoC** 

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

NFPA Health Hazard -Flammability -Instability -Physical and chemical

hazards -

Health Hazard 1 Physical Hazard 0 Personal protection X HMIS Flammability 1

#### 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

13-May-2016 - FDC-Y5P - 4 - AGHS - English -

#### 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** 

# Technical Data Product Specification



FOOD COLORS

Product Code FDC-Y5G

Product Description FD&C Yellow #5 Granular

Common Name Tartrazine

Chemical Name Principally the trisodium salt of 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-[4-

sulfophenyl-azo]-1*H* -pyrazole-3-carboxylic acid.

**Function** Food colorant

CI Number 19140

CI Name Food Yellow 4
CAS Number 1934-21-0
EINECS Number 217-699-5
EC Number E102

**Specifications** Every batch of this product is individually tested and certified by FDA to

confirm compliance with the specifications outlined in the *Code of Federal Regulations, Title 21, Parts 70-82.* 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.

Pure Dye Content 89% minimum

**Physical Appearance** Water-soluble reddish-orange powder with a characteristic yellowish-

orange hue when viewed in a 10 ppm aqueous solution.

Packaging Standard packaging is 25-kg units packed in polyethylene-lined

corrugated cartons. Custom packaging is available upon request with

minimum order requirements.

**Storage** Product is hygroscopic and should be stored in tightly sealed containers

at temperatures below 120°F.

**Shelf Life** Eight years from date of manufacture.

**Kosher Status** Product is kosher certified.

20160817

# 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 Granular

Product code FDC-Y5G

#### 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<sup>™</sup> 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	1934-21-0	90 - 100

## 4. First aid measures

#### 4.1 Description of first-aid measures

General advice No information available.

Eye contact 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.

**Skin contact** Immediate medical attention is not required. Wash off with soap and water.

**Inhalation** Immediate medical attention is not required. Move to fresh air.

Ingestion 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.

#### 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 No information available

Melting/freezing point 350 °C

Boiling point/boiling rangeNo information availableFlash PointNo information availableEvaporation rateNo information availableFlammability (solid, gas)No information available

Flammability Limits in Air

upper flammability limit
lower flammability limit
Vapor pressure
Vapor density

No information available
No information available
No information available
No information available

Specific Gravity 1.93

Water solubility 10000 g/l

Solubility in other solvents

Partition coefficient -10.17 log POW

Autoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, kinematicNo information availableViscosity, dynamicNo 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

No information available

#### 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:

12,750 mg/kg (mouse)

Numerical measures of toxicity: Component Information

#### 11.2 Information on toxicological effects

## Skin corrosion/irritation

Product Information

May cause irritation

Component Information

No information available

## Serious eye damage/eye irritation

**Product Information** 

· May cause eye irritation

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

<u>Component Information</u>
• 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

DOTNot regulatedMEXNot regulatedIMDGNot regulatedIATANot regulated

## 15. Regulatory information

## 15.1 International Inventories

TSCA Complies
DSL Complies
EINECS/ELINCS Complies

\_\_\_\_

ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies
NZIOC -

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

NFPA Health Hazard - Flammability - Instability - Physical and chemical hazards -

HMIS Health Hazard 1 Flammability 1 Physical Hazard 0 Personal protection X

#### 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**