

# Scientific Documentation

## FD and C Yellow No. 5

Not appropriate for regulatory submission.

Please visit [www.spectrumchemical.com](http://www.spectrumchemical.com) or contact Tech Services for the most up-to-date information contained in this information package.

Spectrum Chemical Mfg Corp  
769 Jersey Avenue  
New Brunswick, NJ 08901  
Phone 732.214.1300



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## Specification for FD and C Yellow No. 5 (FD150)

Item Number	FD150
Item	FD and C Yellow No. 5
CAS Number	1934-21-0
Molecular Formula	C <sub>16</sub> H <sub>9</sub> N <sub>4</sub> O <sub>9</sub> S <sub>2</sub> Na <sub>3</sub>
Molecular Weight	534.37
MDL Number	
Synonyms	Tartrazine ; Acid Yellow 23

Test	Specification	
	Min	Max
APPEARANCE		
FDA LOT NUMBER		
TOTAL COLOR	87 %	
SUM OF VOLATILE MATTER AT 135 °C (275 °F) AND CHLORIDES AND SULFATES		
(CALCULATED AS SODIUM SALTS)		13 %
WATER-INSOLUBLE MATTER		0.2 %
4,4'-[4,5-DIHYDRO-5-OXO-4-[(4-SULFOPHENYL)HYDRAZONO]-1H-PYRAZOL-1,3-DIYL]		
BIS[BENZENESULFONIC ACID], TRISODIUM SALT		1 %
4-[(4',5-DISULFO[1,1'-BIPHENYL]-2-YL)HYDRAZONO]-4,5-DIHYDRO-5-OXO-1-		
(4-SULFOPHENYL)-1H-PYRAZOLE-3-CARBOXYLIC ACID, TETRASODIUM		1 %
ETHYL OR METHYL 4,5-DIHYDRO-5-OXO-1-(4-SULFOPHENYL)-4-[(4-SULFOPHENYL)		
HYDRAZONO]-1H-PYRAZOLE-3-CARBOXYLATE, DISODIUM SALT		1 %
SUM OF 4,5-DIHYDRO-5-OXO-1-PHENYL-4-[(4-SULFOPHENYL)AZO]-1H-PYRAZOLE-3-		
CARBOXYLIC ACID, DISODIUM SALT, AND 4,5-DIHYDRO-5-OXO-4-(PHENYLAZO)-1-		

Test	Specification	
	Min	Max
(4-SULFOPHENYL)-1H-PYRAZOLE-3-CARBOXYLIC ACID, DISODIUM SALT		0.5 %
4-AMINOBENZENESULFONIC ACID, SODIUM SALT		0.2 %
4,5-DIHYDRO-5-OXO-1-(4-SULFOPHENYL)-1H-PYRAZOLE-3-CARBOXYLIC ACID, DISODIUM SALT		0.2 %
ETHYL OR METHYL 4,5-DIHYDRO-5-OXO-1-(4-SULFOPHENYL)-1H-PYRAZOLE-3-CARBOXYLATE		
SODIUM SALT		0.1 %
4,4'-(1-TRIAZENE-1,3-DIYL)BIS[BENZENESULFONIC ACID], DISODIUM SALT		0.05 %
4-AMINOAZOBENZENE		75 ppb
4-AMINOBIIPHENYL		5 ppb
ANILINE		100 ppb
AZOBENZENE		40 ppb
BENZIDINE		1 ppb
1,3-DIPHENYLTRIAZENE		40 ppb
LEAD (Pb)		10 ppm
ARSENIC (As)		3 ppm
MERCURY (Hg)		1 ppm
IDENTIFICATION	APPROX. 0.053 @ (428) nm	
EXPIRATION DATE		
DATE OF MANUFACTURE		

***Spectrum Chemical Mfg Corp***

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<b><i>Corporate Headquarters:</i></b>	<b><i>West Coast Facility:</i></b>
769 Jersey Ave.	14422 S. San Pedro St.
New Brunswick, NJ 08901	Gardena, CA 90248
732.214.1300	310.516.8000

## Certificate Of Analysis

Item Number	FD150	Lot Number	1JE0241
Item	FD and C Yellow No. 5	CAS Number	1934-21-0
Molecular Formula	C <sub>16</sub> H <sub>9</sub> N <sub>4</sub> O <sub>9</sub> S <sub>2</sub> Na <sub>3</sub>	Molecular Weight	534.37

TEST	SPECIFICATION		RESULT
	MIN	MAX	
APPEARANCE			REDDISH POWDER
FDA LOT NUMBER			BA1081
TOTAL COLOR	87 %		90 %
SUM OF VOLATILE MATTER AT 135 °C (275 °F) AND CHLORIDES AND SULFATES			.
(CALCULATED AS SODIUM SALTS)		13 %	1.64 %
WATER-INSOLUBLE MATTER		0.2 %	0.09 %
4,4'-[4,5-DIHYDRO-5-OXO-4-[(4-SULFOPHENYL)HYDRAZONO]-1H-PYRAZOL-1,3-DIYL]			.
BIS[BENZENESULFONIC ACID], TRISODIUM SALT		1 %	0.07 %
4-[(4',5-DISULFO[1,1'-BIPHENYL]-2-YL)HYDRAZONO]-4,5-DIHYDRO-5-OXO-1-			.
(4-SULFOPHENYL)-1H-PYRAZOLE-3-CARBOXYLIC ACID, TETRASODIUM		1 %	0.16 %
ETHYL OR METHYL 4,5-DIHYDRO-5-OXO-1-(4-SULFOPHENYL)-4-[(4-SULFOPHENYL)			.
HYDRAZONO]-1H-PYRAZOLE-3-CARBOXYLATE, DISODIUM SALT		1 %	<0.02 %
SUM OF 4,5-DIHYDRO-5-OXO-1-PHENYL-4-[(4-SULFOPHENYL)AZO]-1H-PYRAZOLE-3-			.
CARBOXYLIC ACID, DISODIUM SALT, AND 4,5-DIHYDRO-5-OXO-4-(PHENYLAZO)-1-			.
(4-SULFOPHENYL)-1H-PYRAZOLE-3-CARBOXYLIC ACID, DISODIUM SALT		0.5 %	<0.5 %
4-AMINOBENZENESULFONIC ACID, SODIUM SALT		0.2 %	<0.2 %

TEST	SPECIFICATION		RESULT
	MIN	MAX	
4,5-DIHYDRO-5-OXO-1-(4-SULFOPHENYL)-1H-PYRAZOLE-3-CARBOXYLIC ACID, DISODIUM SALT		0.2 %	<0.2 %
ETHYL OR METHYL 4,5-DIHYDRO-5-OXO-1-(4-SULFOPHENYL)-1H-PYRAZOLE-3-CARBOXYLATE			.
SODIUM SALT		0.1 %	<0.02 %
4,4'-(1-TRIAZENE-1,3-DIYL)BIS[BENZENESULFONIC ACID], DISODIUM SALT		0.05 %	<0.05 %
4-AMINOAZOBENZENE		75 ppb	<5 ppb
4-AMINOBIIPHENYL		5 ppb	<1 ppb
ANILINE		100 ppb	29 ppb
AZOBENZENE		40 ppb	<40 ppb
BENZIDINE		1 ppb	<20 ppb
1,3-DIPHENYLTRIAZENE		40 ppb	<5 ppb
LEAD (Pb)		10 ppm	<2 ppm
ARSENIC (As)		3 ppm	<1 ppm
MERCURY (Hg)		1 ppm	<1 ppm
IDENTIFICATION	APPROX. 0.053 @ (428) nm		0.0613 AT (428) nm
EXPIRATION DATE			31-MAR-2026
DATE OF MANUFACTURE			01-APR-2020

Certificate of Analysis Results Entered By:

HBERMUDEZ  
Hernan Bermudez  
05-JUN-23 11:27:34

Spectrum Chemical Mfg Corp  
14422 South San Pedro Street  
Gardena 90248 CA



Certificate of Analysis Results Approved By:

DGARCIA  
Dylan Garcia  
05-JUN-23 13:28:39

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

# SAFETY DATA SHEET

# spectrum®



Revision date 01-June-2021

Revision Number 2

## 1. Identification

### Product identifier

Product Name FDANDC YELLOW NO. 5

### Other means of identification

Product Code(s) FD150

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available

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

#### Supplier Address

Spectrum Chemical Mfg. Corp.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

### Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

### Classification

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Combustible dust	Yes

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

**Danger**

#### Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May form combustible dust concentrations in air



**Appearance** Powder

**Physical state** Solid

**Odor** No information available

#### Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves  
Keep away from all ignition sources including heat, sparks, and flame  
Keep container closed and grounded  
Prevent dust accumulations to minimize explosion hazard

IF ON SKIN: Wash with plenty of water and soap  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available.

### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%	Trade secret
FD&C Yellow #5	1934-21-0	100	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

#### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	May produce an allergic reaction. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.



<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information.
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**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives.
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**Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	May cause sensitization in susceptible persons. Treat symptomatically.
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## **5. Fire-fighting measures**

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
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<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
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<b>Specific hazards arising from the chemical</b>	Avoid generation of dust. Fine dust dispersed in air may ignite. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.
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**Explosion data**

<b>Sensitivity to mechanical impact</b>	none.
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<b>Sensitivity to static discharge</b>	yes.
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<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## **6. Accidental release measures**

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

<b>Personal precautions</b>	Ensure adequate ventilation. Avoid generation of dust. Avoid contact with eyes. Use personal protective equipment as required. Do not breathe dust. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
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<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
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**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so. Prevent dust cloud.
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<b>Methods for cleaning up</b>	Take up with inert, damp, non-combustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal. Pick up and transfer to properly labeled containers.
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## **7. Handling and storage**

**Precautions for safe handling**

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with eyes. Keep
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away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

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

### **Control parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

### **Appropriate engineering controls**

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

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Do not breathe dust. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

## **9. Physical and chemical properties**

### **Information on basic physical and chemical properties**

<b>Physical state</b>	Solid
<b>Appearance</b>	Powder
<b>Color</b>	Orange
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	6-8	None known
<b>Melting point / freezing point</b>	no data available	None known
<b>Boiling point / boiling range</b>	no data available	None known
<b>Flash point</b>	no data available	None known
<b>Evaporation rate</b>	no data available	None known
<b>Flammability (solid, gas)</b>	no data available	None known

<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	no data available	None known
<b>Relative density</b>	no data available	None known
<b>Water solubility</b>	Soluble in water	None known
<b>Solubility(ies)</b>	Soluble in Ethanol	None known
	Soluble in Glycerol	
	Slightly soluble in Propylene glycol	
	Soluble in Sulfuric acid	
	Slightly soluble in oil	
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	no data available	None known
<b>Decomposition temperature</b>		None known
<b>Kinematic viscosity</b>	no data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b><u>Other information</u></b>		
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	
<b>Softening point</b>	No information available	
<b>Molecular weight</b>	No information available	
<b>VOC Content (%)</b>	No information available	
<b>Liquid Density</b>	No information available	
<b>Bulk density</b>	No information available	

## 10. Stability and reactivity

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Excessive heat. Heating in air. dust formation.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous decomposition products</b>	None known based on information supplied.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Product Information</b>	.
<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause sensitization in susceptible persons. (based on components).
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms**

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives.

**Acute toxicity****Numerical measures of toxicity****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
FD&C Yellow #5 1934-21-0	> 2000 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	May cause sensitization by inhalation. May cause sensitization by skin contact.
<b>Germ cell mutagenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Interactive effects</b>	No information available.

**12. Ecological information****Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
FD&C Yellow #5 1934-21-0	-	>1000 ppm LC50 Oryzias latipes 48h	-	5706.6 mg/L EC50 Ceriodaphnia dubia 48h

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	Inherently biodegradable.

<b>Other adverse effects</b>	No information available.
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**13. Disposal considerations****Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.

**14. Transport information**

<b>DOT</b>	not regulated
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<b><u>TDG</u></b>	not regulated
<b><u>MEX</u></b>	not regulated
<b><u>ICAO (air)</u></b>	not regulated
<b><u>IATA</u></b>	not regulated
<b><u>IMDG</u></b>	not regulated
<b><u>RID</u></b>	not regulated
<b><u>ADR</u></b>	not regulated
<b><u>ADN</u></b>	not regulated

## 15. Regulatory information

### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	This product complies with ENCS:
<b>IECSC</b>	This product complies with China:
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

#### **Legend:**

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

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

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

### US 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.

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

## U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## **16. Other information**

### NFPA

**Health hazards** 2

**Flammability** 1

**Instability** 0

**Physical and chemical properties** -

### HMIS

**Health hazards** 2 \*

**Flammability** 0

**Physical hazards** 0

**Personal protection** X

*Chronic Hazard Star Legend*

*\* = Chronic Health Hazard*

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AELG(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Revision date** 01-June-2021

**Revision Note** No information available.

### Disclaimer

The information provided in this 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**



**Certification of Compliance with current Good Manufacturing Practices**

Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name
FD150	FD and C Yellow No. 5

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632  
Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at [qualityassurance@spectrumchemical.com](mailto:qualityassurance@spectrumchemical.com)

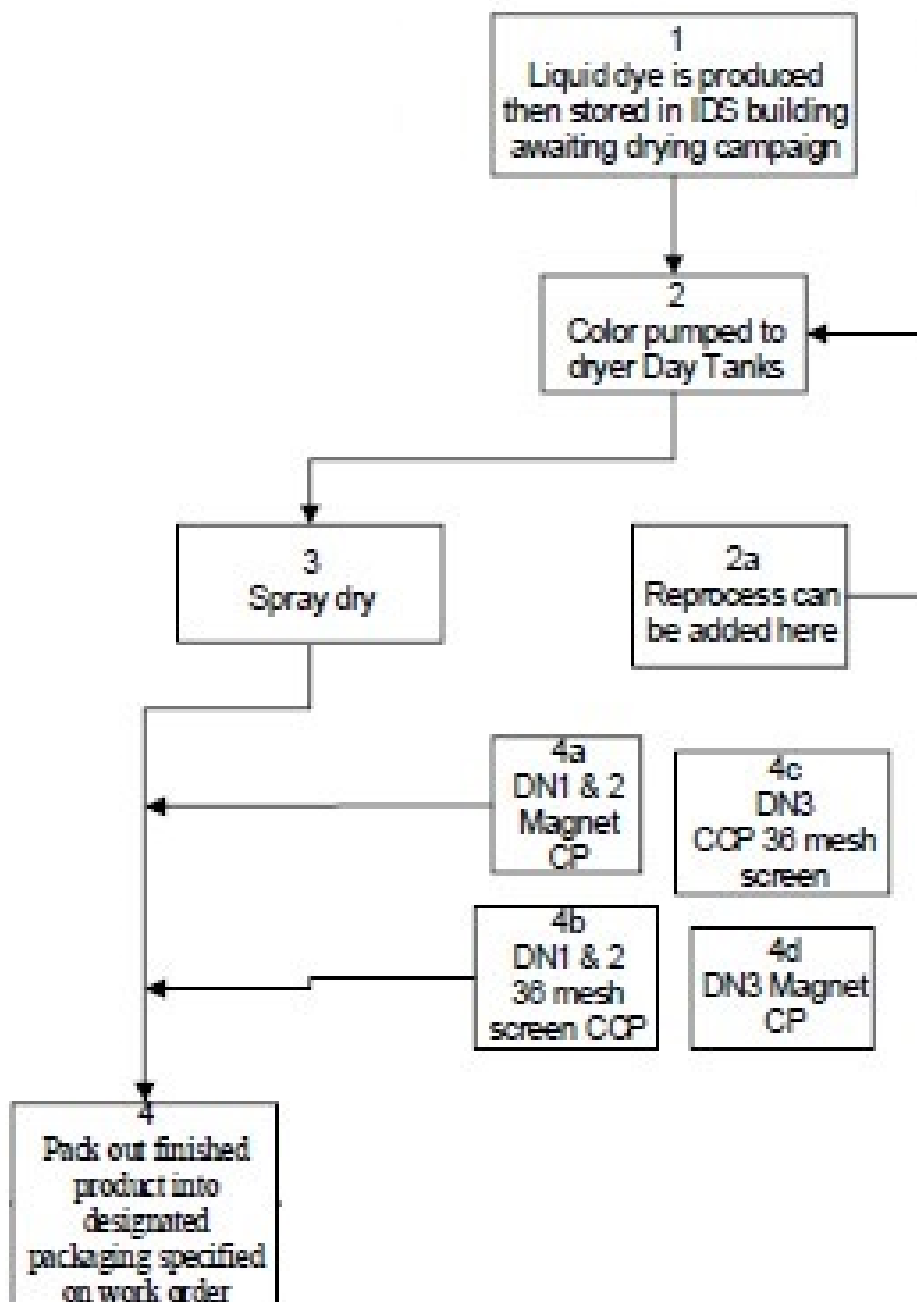
Sincerely,

A handwritten signature in black ink, appearing to read "Oralia Chavez", written in a cursive style.

Oralia Chavez  
Quality Assurance Specialist



## Manufacturing Process Flowchart FD and C Yellow No. 5 (Cat# FD150)



### CORPORATE HEADQUARTERS

769 Jersey Avenue  
New Brunswick, NJ 08901  
PHONE 732.214.1300  
FAX 732.246.7132

### WEST COAST FACILITY

14422 South San Pedro Street  
Gardena, California 90248  
PHONE 310.516.8000  
FAX 310.516.9843

## FD150, FD and C Yellow No. 5

### Source Statement

The above mentioned catalog item is manufactured by chemical synthesis. No animal or plant derived products are used in the manufacturing process.

### BSE/TSE Statement

The above mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore, BSE/TSE free.

### Allergen Statement

The above mentioned catalog item does not contain any of the following:

- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy
- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

### EU Fragrance Allergen Statement

The above mentioned catalog item does not contain any of the 26 EU fragrance allergens listed in Annex III lines 67-92. These substances are not intentionally added to this material and therefore are not expected to be present.

### GMO Statement

The above mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

### Melamine Statement

The above mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.

## Nitrosamine Statement

Based on knowledge of the manufacturing process, we assess that the risk of nitrosamine presence in the above-mentioned catalog item is low. Sodium nitrite is used during the earlier steps of the manufacturing process; however the risk of nitrosamine formation is low, with only primary amines present. Additionally, subsequent washes and purifications carried out during the manufacturing process significantly reduce the potential for sodium nitrite residues to be present in the finished product. Cleaning procedures are in place to mitigate the potential for cross-contamination.

## Animal Testing Statement

The above mentioned catalog item has not been tested on animals.

## Organic Compliance Statement

The above mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

## Shelf Life Statement

The above mentioned catalog item is typically assigned a shelf life of 72 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

## Other Chemicals Statement

Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- |                     |                 |
|---------------------|-----------------|
| • Aflatoxins        | • Parabens      |
| • Antibiotics       | • Pesticides    |
| • Bisphenol A (BPA) | • Phthalates    |
| • CMR Substances    | • Preservatives |

## Label Information

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.



**DANGER**

- May cause an allergic skin reaction • May cause allergy or asthma symptoms or breathing difficulties if inhaled • May form combustible dust concentrations in air.
- Keep away from all ignition sources including heat, sparks and flame • Keep container closed and grounded • Prevent dust accumulations to minimize explosion hazard • Wear respiratory protection, protective gloves • Avoid breathing dust • Contaminated work clothing must not be allowed out of the workplace.

**FIRST AID:** IF ON SKIN: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician.

**KEEP FROM CHILDREN**



**FD150                      SIZ SY**

**FD&C Yellow #5**

(Acid Yellow 23; Tartrazine)

CAS 1934-21-0                      FDA Lot Number ..... ?

C.I. 19140

**CAUTION:** For investigational use only.  
Read and understand the label and Safety Data Sheet (SDS) prior to use.

**Chemical Emergency: (800)424-9300**

www.SpectrumChemical.com

$C_{16}H_9N_4O_9S_2Na_3$       F.W. 534.37

Lot No. XQ####

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