



# SAFETY DATA SHEET

Preparation Date: 03-10-2016 Revision date 2-4-2019 Revision Number: G2

## 1. IDENTIFICATION

Product identifier

Product code: FD130

Product Name: FDANDC EMERALD GREEN

Other means of identification

**Synonyms:** No information available

CAS #: Mixture
RTECS # BP6825000
CI#: Not available

Recommended use of the chemical and restrictions on use Recommended use: Research and Development.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

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

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Combustible dust	-

#### 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

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### Hazards not otherwise classified (HNOC)

Combustible Dust

#### Other hazards

Not 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

#### **Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of water

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/physician.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
FD&C Yellow #5	1934-21-0	10-90
FD&C Blue #1	3844-45-9	10-90

#### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

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#### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause an allergic skin reaction

May cause allergic respiratory reaction
May cause eye/skin/respiratory tract irritation

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

#### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

Specific hazards May be combustible at high temperatures. Avoid

generating dust. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is

a potential dust explosion hazard.

**Special Protective Actions for Firefighters** 

Specific Methods: No information available

**Special Protective Equipment 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

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

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Remove all sources of ignition. Avoid dust formation. Avoid dispersal of dust in the air. 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. Non-sparking tools should be used.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the

environment.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

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## 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Minimize dust generation and accumulation. Avoid dust formation. Dry powders can build static electricity charges when subjected to friction of transfer and mixing operations. All equipment used when handling the product must be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from incompatible materials.

### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

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

## **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

## **Incompatible Materials:**

Strong oxidizing agents Acids Alkali Metals Peroxides

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

#### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
FD&C Yellow #5	1934-21-0	None	None	None	None
FD&C Blue #1	3844-45-9	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
FD&C Yellow #5	1934-21-0	None	None	None	None
FD&C Blue #1	3844-45-9	None	None	None	None

## **Australia and Mexico**

Component	CAS No	Australia	Mexico
FD&C Yellow #5	1934-21-0	None	None
FD&C Blue #1	3844-45-9	None	None

## **Appropriate engineering controls**

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use

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ventilation to keep exposure to airborne contaminants below the exposure limit. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in the handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

## Individual protection measures, such as personal protective equipment

## **Personal Protective Equipment**

**Eye protection:** Goggles or Safety glasses with side-shields.

**Skin and body protection:** Long sleeved clothing

Chemical resistant apron

Gloves

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Powder. No information available.

Odor: Taste Formula

No information available. No information available. No information available.

Molecular/Formula weight (g/mole): Flammability (solid, gas)

No information available

Flashpoint (°C/°F):

No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

Specific gravity: pH Vapor pressure @ 20°C (kPa):

No information available 
No information available 
No information available

Evaporation rate: Vapor density: VOC content (g/L):

No information available

No information available

No information available

Odor threshold (ppm): Partition coefficient
No information available (n-octanol/water):

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No information available

Viscosity:

No information available

Miscibility: Solubility:

No information available 
No information available

#### 10. STABILITY AND REACTIVITY

Reactivity

Reactive with strong oxidizing agents

Reactive with acids

**Chemical stability** 

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust

dispersed in air in sufficient concentrations, and in the presence of an ignition

source is a potential dust explosion hazard. Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Acids Alkali Metals Peroxides

**Hazardous decomposition** 

products:

Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Ingestion. Inhalation.

#### **Acute Toxicity**

#### **Component Information**

FD&C Yellow #5 CAS No 1934-21-0

**LD50/oral/rat =** > 2000 mg/kg Oral LD50 Rat

LD50/oral/mouse = 12750 mg/kg Oral LD50 Mouse

**LD50/dermal/rabbit** = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

FD&C Blue #1

CAS No 3844-45-9

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LD50/oral/rat = > 2 g/kg Oral LD50 Rat LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

Value - Acute Tox = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

Value - Acute Tox = No information available

LD50/dermal/rat

**VALUE - Acute Tox Dermal =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Health injuries are not known or expected under normal use.

**Aspiration hazard** No information available.

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

**Chronic Toxicity** Prolonged or repeated inhalation may cause allergic reaction. Prolonged or

repeated skin contact may cause allergic reaction.

**Sensitization:** May cause sensitization by inhalation and skin contact.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

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Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
FD&C Yellow #5	1934-21-0	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
FD&C Blue #1		Supplement 7 [1987] Monograph 16 [1978]	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer) Group 3 - Not classifiable as to its carcinogenicity to humans NTP (National Toxicology Program)

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

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.
No information available.

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

FD&C Yellow #5 - 1934-21-0

Fish >1000 ppm LC50 Oryzias latipes 48h
Crustacea 5706.6 mg/L EC50 Ceriodaphnia dubia 48h

FD&C Blue #1 - 3844-45-9

Fish LC50 - Oncorhynchus mykiss (rainbow trout) - 412/mg/l - 96 h

Crustacea EC50 - Daphnia magna (water flea) - >97 mg/l - 48 h

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

## 13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

## Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

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Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
FD&C Yellow #5	1934-21-0	None	None	None	None
FD&C Blue #1	3844-45-9	None	None	None	None

## 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

**ADR** 

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

**IMDG** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

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

RID

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group

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

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class No information available

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**Subsidiary Risk:** No information available No information available **Packing Group:** 

IATA

**UN Number** Not Regulated

**Proper Shipping Name:** No information available Transport hazard class(es) No information available **Subsidiary Risk:** No information available **Packing group** No information available **Precautionary Statements -**IF exposed or concerned

Response

No information available **Special Provisions** 

## 15. REGULATORY INFORMATION

### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
FD&C Yellow #5	1934-21-0	PresentACTIV E	Present KE-06857	Present	Present (5)-1402	Present	Present	Present 217-699-5
FD&C Blue #1	3844-45-9	PresentACTIV E	Present KE-13703	Present	Present (5)-1632	Present	Present	Present 223-339-8

## **U.S. Regulations**

FD&C Yellow #5

FDA - 21 CFR - Total Food Additives 176.170, 178.1010, 178.3297, 74.1705, 74.2705, 74.705, 82.705

- List Sourced from EAFUS

FD&C Blue #1

Massachusetts RTK: Present

California Directors List of Hazardous Substances: Present

FDA - 21 CFR - Total Food Additives 74.101, 74.1101, 74.2101, 82.101

- List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
FD&C Yellow #5	1934-21-0	Not Listed	Not Listed	Not Listed	Not Listed
FD&C Blue #1	3844-45-9	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
FD&C Yellow #5	1934-21-0	None	None	None	None	None
FD&C Blue #1	3844-45-9	None	None	None	None	None

U.S. TSCA

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Component			TSCA 8(d) -Health and Safety Reporting
FD&C Yellow #5	1934-21-0	Not Applicable	Not Applicable
FD&C Blue #1	3844-45-9	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Component

FD&C Yellow #5 1934-21-0 ( 10-90 ) WHMIS 2015 Hazard Classification

Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust'

hazard class)

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### **DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
FD&C Yellow #5	1934-21-0	Present	Not Listed
FD&C Blue #1	3844-45-9	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
FD&C Yellow #5	1934-21-0	Not listed
FD&C Blue #1	3844-45-9	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
FD&C Yellow #5	1934-21-0	Not listed
FD&C Fellow #5	3844-45-9	Not listed

## **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
FD&C Yellow #5	1934-21-0	
FD&C Blue #1	3844-45-9	

#### EU - CLP (1272/2008)

## R-phrase(s)

R42 - May cause sensitization by inhalation

R43 - May cause sensitization by skin contact

## S -phrase(s)

S37 - Wear suitable gloves

S22 - Do not breathe dust

Component CA	AS No	Classification	Concentration Limits:	Safety Phrases
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FD&C Yellow #5	1934-21-0	No information	
FD&C Blue #1	3844-45-9	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

## Indication of danger:

Xi - Irritant



## **16. OTHER INFORMATION**

Preparation Date: 03-10-2016
Revision date 2-4-2019
Prepared by: Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable. Spectrum assumes no responsibility for the

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**End of Safety Data Sheet** 

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