

Safety Data Sheet

FD&C Blue #1, Powder

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: BFD&C Blue #1, Powder (Brilliant Blue FCF)

Synonyms/Generic Names: Food coloring; C.I. Acid Blue 9, disodium salt

Formula/ Chemical Formula: $C_{37}H_{34}N_2Na_2O_9S_3$

Product Number: FDCBLUE1

C.I. No: 42090

Product Use: Industrial, Manufacturing or Laboratory use

Supplier: Chemical Store Inc.
1059 Main Avenue.
Clifton, NJ 07011

For More Information: 973-405-6248 (Monday-Friday 10 AM – 5:00 PM)
www.ChemicalStore.com

In Case of Emergency Call: 973-420-4972

2. HAZARDS IDENTIFICATION

Signal Words: Warning

Pictograms: None

GHS Classification:

Acute aquatic toxicity	Category 3
Acute toxicity – inhalation	Category 5
Eye damage/irritation	Category 2B
Acute toxicity – oral	Category 5

GHS Label Elements, including precautionary statements:

Hazard Statements:

H402	Harmful to aquatic life.
H333	May be harmful if inhaled
H320	Causes eye irritation
H303	May be harmful if swallowed

Precautionary Statements:

P304 + P312	– IF INHALED OR SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell
P305 + 351 + P338	– IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337 + P313	– If eye irritation persists: Get medical advice attention
P264	–Wash face thoroughly after handling

Potential Health Effects

Eyes	Mild irritation to eye.
Inhalation	Irritation to respiratory system as nuisance dust.
Skin	Not Available
Ingestion	Not Available

NFPA Ratings

Health	0
Flammability	0
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	0
Fire	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
FD&C Blue #1	100	3844-45-9	222-339-8	C ₃₇ H ₃₄ N ₂ O ₉ S ₃ Na ₂	792.84 g/mol

4. FIRST-AID MEASURES

Eyes	Flush eyes with water.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.
Skin	Wash off with soap and plenty of water.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water.

5. FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Not flammable. Use appropriate media on adjacent fire. Use water to cool containers.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	May emit toxic fumes under fire conditions. (Carbon oxides, Nitrogen oxides, Sulfur oxides, Sodium oxides) (See also Stability and Reactivity section)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste or cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Avoid creating dust. Avoid getting in eyes and on skin. Wash thoroughly after using. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

Personal Protection



Eyes	Wear chemical safety glasses with side-shields.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, apron or lab coat.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Blue powder. Solid.
Odor	No odor
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	283 °C (541 °F)
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available

Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Flammable
Vapor pressure (mmHg)	Not Available
Vapor density	Not Available
Relative density	Not Available
Solubility (ies)	Soluble
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Applicable
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Extreme heat.
Incompatible Materials	Oxidizing agents, reducing agents.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides, Sulfur oxides, Sodium oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral- rat- 300 mg/kg

Carcinogenicity

IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Skin irritation.
Eyes	Eye irritation.
Respiratory	Irritation.
Ingestion	Irritation.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available
Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Rhode Island: Hazardous Substance List	Not Listed
Massachusetts: Toxic or Hazardous Substance List, Right to Know	Listed: FD&C Blue #1
Pennsylvania: Hazardous Substance List	Not Listed
New Jersey: Right to Know Hazardous Substance List	Not Listed
SARA 302	Not Listed
SARA 304	Not Listed

SARA 311	No SARA Hazards
SARA 312	No SARA Hazards
SARA 313	Not Listed
WHMIS Canada	Not Listed

16. OTHER INFORMATION

Revision	Date
Original	12/29/2022
Revision 1	?

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