

Food Color



HILTON DAVIS

TECHNICAL DATA

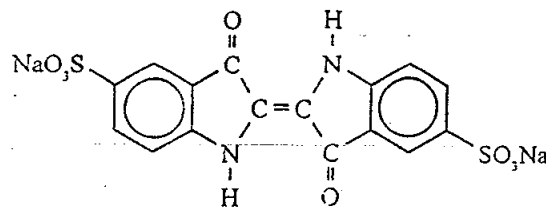
PRODUCT NAME: FD&C BLUE NO. 2
PRODUCT CODE: 10-21-DA-2242

Color Index Name: Food Blue 1
Common Name: Indigotine

Color Index No.: 73015

CAS No.: 860-22-0

Molecular Weight: 466.4



Chemical Name: Disodium salt of 2-(1,3-dihydro-3-oxo-5-sulfo-2H-indol-2-ylidene)-2,3-dihydro-3-oxo-1H-indole-5-sulfonic acid, principally.

Pure Color Assay: FDA Requirement 85% minimum

Volatile plus Chlorides and Sulfates as Sodium Salts: 15% maximum

Water Insolubles: 0.4% maximum

Uncombined Intermediates: Meets FDA requirements

Subsidiary Colors: Meets FDA requirements

Heavy Metals:
Lead 10 ppm maximum
Arsenic 3 ppm maximum
Mercury 1 ppm maximum

(CONTINUED ON OTHER SIDE)

The information provided on this and any following pages regarding our product(s) has been developed as a guide for your consideration and verification and does not constitute a legal representation or warranty. Due to differences in product formulation and operational conditions, we cannot be responsible for results in the user's plant or product.

PRODUCT NAME: FD&C BLUE NO. 2
PRODUCT CODE: 10-21-DA-2242

Stability to:

Light	Very poor
Oxidation	Poor
Heat	Good

Variations in pH:

pH 3	Appreciable fade in less than 1 week
pH 8	Fades completely

Solubility at 25° C:

Distilled Water	1 oz. per gallon
Glycerine	½ oz. per gallon
Propylene Glycol	Trace
Ethanol (95%)	Tint

Particle Size:

On 100 Mesh Screen	≤15% typical
On 200 Mesh Screen	≤60% typical
Thru 200 Mesh Screen	≥25% typical

Remarks

FD&C Blue No. 2 gives a deep blue color in solution. It is the least soluble of all the Food Colors. FD&C Blue No. 2 is stable in the presence of organic acids. However, it exhibits poor light fastness properties.

The major use of FD&C Blue No. 2 is in pet foods.

HMIS H: 0
F: 0
R: 0
O: None

HILTON DAVIS MATERIAL SAFETY DATA SHEET

Hilton Davis Company
2235 Langdon Farm Rd.
Cincinnati, Ohio 45237

Hilton Davis Code No.: 10-21-DB-2805
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Emergency Phone Number:
(513)841-4889 [(513)841-4000 24 Hour Number]

Date Prepared: 5/22/96

IDENTIFICATION

COMMON NAME: (used on Label)	FD&C Blue No. 2 - Aluminum Lake
CAS NO.:	16521-38-3 Aluminum Lake
CHEMICAL NAME/TRADE NAME:	Indigotine - Aluminum Lake
PRODUCT CLASS:	FD&C Color
MOLECULAR FORMULA:	$C_{16}H_8N_2Na_2O_8S_2$ Aluminum Lake

HAZARDOUS INGREDIENTS

(CAS REG. NO.) None

PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

SPECIFIC GRAVITY (H ₂ O=1):	UI
VAPOR DENSITY (Air=1):	NA
SOLUBILITY IN WATER:	Insoluble in water
REACTIVITY IN WATER:	None known
APPEARANCE & ODOR:	Blue free flowing powder
FLASH POINT:	NA
EXTINGUISHING MEDIA:	Waterfog, carbon dioxide, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES:	None
UNUSUAL FIRE & EXPLOSION HAZARDS:	None

PHYSICAL HAZARDS

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY:
(Materials to Avoid) Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may yield carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

HEALTH HAZARDS

SIGNS & SYMPTOMS OF EXPOSURE:
Exposure to unprotected skin areas may cause temporary staining.

ACUTE OVEREXPOSURE:
None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN: No citation found

OSHA PERMISSIBLE EXPOSURE LIMIT: 10 mg/m³ - total dust
5 mg/m³ - respirable dust

ACGIH THRESHOLD LIMIT VALUE: Not determined

EMERGENCY & FIRST AID PROCEDURES:

1. Inhalation: This material is not expected to be an inhalation problem.
2. Eyes: Flush eyes with plenty of low pressure water. Obtain medical attention if irritation exists.
3. Skin: Wash exposed skin areas with soap and water. If irritation exists, obtain medical attention.
4. Ingestion: Obtain medical attention if large amount of product is ingested.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

An approved dust respirator should be worn.

VENTILATION:

Sufficient to prevent inhalation of vapors.

PROTECTIVE GLOVES:

Recommended

EYE PROTECTION:

Safety goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Coveralls to protect work clothes.

SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:

Protect containers from physical damage. Provide adequate ventilation during handling.

OTHER PRECAUTIONS: None

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Scoop up spilled material and discard into proper waste container. Provide proper ventilation during clean up.

WASTE DISPOSAL METHODS:

Dispose of according to federal, state and local regulations.

NA - Not Applicable

UI - Unavailable Information

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