

# SAM VEGETABLE COLOURS PVT. LTD.

## Natural Vegetable dyes exporters

B-129, Galaxy Apartment, Civil Lines, Moradabad (U.P)

Phone: 0591-2435661/662 Mob: 9412236266

E-mail: [naturaldyes10@yahoo.co.in](mailto:naturaldyes10@yahoo.co.in)

Website: [www.naturalfermenteddyes.com](http://www.naturalfermenteddyes.com)

### 1 — Chemical Product and Company Identification

#### Natural Indigo Dye Powder

Sam Vegetable Colours (P) Ltd., B-129, Galaxy Apartment, civil lines, Moradabad India.

Phone: +91 9412236266. E-mail: [naturaldyes10@yahoo.co.in](mailto:naturaldyes10@yahoo.co.in)

### 2 — Composition, Information on Ingredients

This is a natural product and processing/manufacturing is done on the traditional way and no chemical/ solvent treatment is done during the processing or at the final stages.

Botanical Name: Indigofera Tinctoria

Common Name/Synonyms: Natural Indigo, C.I. 73000

C.I. Number: C.I. Vat Blue 1

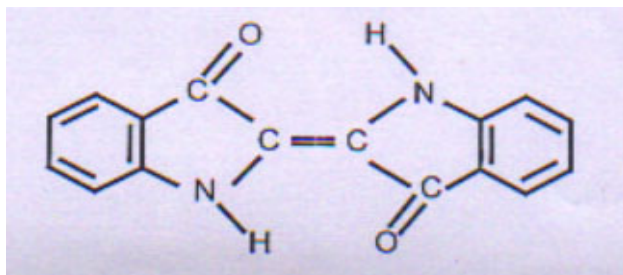
Appearance: Dark Blue Powder

Preparation: It is prepared from leaves of Indigo plant by natural fermentation process.

Part used: Leaves.

Chemical formula: C<sub>16</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>

Structure:



### 3 — Hazards Identification

According to present state of knowledge, provided that this product is handled correctly, there is no known damage to human.

Dark Blue powder. Odorless.

Body tissue irritant. Avoid contact with all body tissues.

Health-0

Flammability-0

Reactivity-0

Exposure-0

Storage-0

0 is low hazard, 3 is high hazard

### 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation & support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with mild soap and fresh water for 15 minutes.  
Internal: Wash mouth out with water. Call a physician or poison control at once.

### **5 — Fire Fighting Measures & Instructions:**

Non flammable solid. When heated to decomposition, emits acrid and irritating fumes. Use triclass, dry chemical fire extinguisher. Firefighters should wear self contained breathing apparatus

### **6 — Accidental Release Measures**

Use mask, hand gloves and safety goggles. Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

### **7 — Handling and Storage**

Suggested Storage Pattern: Store with dyes, indicators, and stains.  
Store in a cool dry place. Keep container tightly closed.

### **8 — Exposure Controls , Personal Protection**

Avoid contact with eyes, skin and clothing. Wear Dust masks, Safety goggles, PVC hand gloves and Safety shoes  
Protective suit

### **9 — Physical and Chemical Properties**

Appearance: Dark Blue powder. Odorless.  
Solubility In Water: 4.0+2.0%  
Heavy Metal Content: Zn=27ppm, Cr=1.6ppm Absent = Pb, As, Cu, Hg, Ni, Cd.  
Moisture Content: 5+1.0%  
Ph Of 1% Solution: 7+1.0  
Speciality : Colour changes to greenish yellow in alkaline medium.  
Formula: C16H10N2O2  
Main colouring content: Indigotin (Strength 35-43%) by spectrophotometer

### **10 — Stability and Reactivity**

Avoid contact with strong oxidizers.  
Shelf life: Indefinite, protect from light.

### **11 — Toxicological Information**

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:**

Rat, LD50: 1200 mg/kg

**Chronic Effects on Humans:** Health risk through the environment, in general, is considered to be presumably low due to its use pattern and exposure situation

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:**

Cancer Information: There is no information available (no data). This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects:

**Eye:** Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

**Skin:** May cause skin irritation. Symptoms may include redness, burning, and swelling of skin.

**Swallowing:** Swallowing this material may be harmful.

**Inhalation:** dust may cause respiratory tract irritation. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Target Organ effects: no data

**Other:** May cause mucous membrane irritation. Although it may cause respiratory tract irritation.

## **12 — Ecological Information**

Data not yet available.

## **13 — Disposal Considerations**

Please consult with state and local regulations.

## **14 — Transport Information**

Shipping Name: Not regulated

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

## **Section 15: Other Regulatory Information**

**Federal and State Regulations:** No products were found.

**Other Regulations:** Not available.

**Other Classifications:**

**DSCL (EEC):** This product is not classified according to the EU regulations.

**HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E

**National Fire Protection Association (U.S.A.):**

**Health:** 1

**Flammability:** 1

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:** Gloves, Lab coat, Safety glasses.

**Dust respirator.** Be sure to use an approved/certified respirator or equivalent.

## **16 — Other Information**

This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Sam Vegetable Colours Pvt. Ltd. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Sam Vegetable Colours Pvt. Ltd. assumes no legal responsibility for use or reliance upon this data.

Date :- 10<sup>th</sup> Oct 2018