



## MATERIAL SAFETY DATA SHEET

Indigo Blue Dye Powder

### 1.- IDENTIFICATION OF SUBSTANCE / IDENTIFICATION THE COMPANY

Identification of the product: Natural Plant Dye Powder

Manufacturer/supplier information: Ekokoza s.r.o., Fryčovice 297, 73945 Fryčovice  
eshop@ekokoza.cz +420605779993

### 2.- COMPOSITION / INGREDIENTS INFORMATION

Natural Indigo is a botanical plant of the species *Indigofera tinctoria*. The natural dye plant powder is derived from a traditional process and no chemicals, solvents or other treatments are used during the processing or production of the indigo dye powder. It is 100% plant based and is considered a non-hazardous product. The blue indigo powder is prepared from the leaves of the indigo plant, and the blue dye is derived from a natural plant-based fermentation process. The leaves are soaked in water and fermented to convert the glycoside indican present in the plant to the blue dye indigotin.

**The chemical formula** for indigo is  $C_{16}H_{10}N_2O_2$

**The colour index reference:** Natural Blue 1, C.I. 75780

**The chemical name:** *Indigofera tinctoria*, ext

**CAS# (Chemical Abstracts Service Registration Number):** 84775-63-3

### 3.- HAZARD IDENTIFICATION

Not classified as hazardous according to EC Directives.

Specific risk: None, though inhalation of the powder is to be avoided.

### 4.- HEALTH RISKS

Ingestion	May cause irritation and cramp in stomach
Inhalation	May cause irritation to the nasal passage
Skin Contact	May cause irritation but low risk.
Eye Contact	May cause irritation but low risk

### 5.- FIRE AND EXPLOSION HAZARDS

Non-flammable product - not Classified

### 6.- RISK OF REACTIVITY

Avoid contact with strong oxidizers and protect from light.



## MATERIAL SAFETY DATA SHEET

### 7.- PHYSICAL AND CHEMICAL PROPERTIES

▪ <i>Form:</i>	Powder
▪ <i>Colour:</i>	Blue ( <i>Indigotin 35-45%</i> )
▪ <i>Odour:</i>	Odourless
▪ <i>pH:</i>	7.0
▪ <i>Solubility in water:</i>	4.0 +/-2.0%
▪ <i>Moisture content</i>	Approximately 5%
▪ <i>Specialty</i>	Colour changes to greenish yellow in alkaline medium

### 8.- TOXICOLOGICAL INFORMATION

<i>Local effects:</i>	None
<i>Specific effects:</i>	None
<i>Information on toxicity:</i>	No known effects

### 9.- ECOLOGICAL INFORMATION

Natural plant product: no adverse environmental effects. Natural plant material which can be easily be decomposed or incinerated.

### 10- HANDING AND STORAGE

No specific handling requirements needed. On measuring, as it is a powder, dust particles can form so it is recommended to wear a mask and avoid inhalation.

### 11.- TRANSPORT INFORMATION AND HAZARD RISK

<i>Road Transport (ADR):</i>	Not considered dangerous – no specific requirements.
<i>Sea Transport (IMDG):</i>	Not considered dangerous – no specific requirements.
<i>Air Transport (IATA):</i>	Not considered dangerous – no specific requirements.

### 12.- REGULATORY INFORMATION

Product is not classified as hazardous in accordance with EU directives on the classification, packaging and labelling of dangerous substances and preparations.



## MATERIAL SAFETY DATA SHEET

Document issued 2021 v1