

# PIXAFIL® AMARILLO POLVO 40 – Technical specifications data sheet

Premix of additives (Category: sensory additives. Functional group: colourants ii) for poultry (except turkeys) for fattening and laying and for minor poultry species for fattening and laying

## 1. GENERAL DESCRIPTION

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Pixafil® Amarillo Polvo 40 is a saponified extract produced from *Tagetes erecta* petals, in powder form. Pixafil® Amarillo Polvo 40 is used as a natural pigment additive in poultry feeds (except turkeys) for fattening and laying and for minor poultry species for fattening and laying.

## 2. INGREDIENTS

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Saponified extract from *Tagetes erecta* to give a concentration of 40 grams of carotenoids and xanthophylls per kilogram.

Carrier: *Tagetes erecta* bagasse.

Common name of *Tagetes erecta*: Spanish: Tagete, flor de Marigold, clavel de las Indias; English: Marigold flower, Aztec Marigold.

## 3. PHYSICO-CHEMICAL PROPERTIES

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Pixafil® Amarillo Polvo 40 is a free flowing powder.

Appearance:	Dark brown powder
Odor:	Characteristic <i>Tagetes erecta</i> scent
Main components:	(2a161b). Lutein-rich extract of <i>Tagetes erecta</i> . Category: 2 (sensory additives) – Functional group: a (colourants).
Solubility:	Soluble in organic solvents such as hexane, toluene, acetone, ethanol, etc.
Loss on drying:	15,0 % maximum
pH:	5,0 to 6,0 (Potentiometric method NMX-F-317-S-1978)
Granulometry:	10 % maximum retention on mesh 20 ASTM

### Chemical analysis:

Total carotenoids and xanthophylls:	40,0 g/kg minimum (Method AOAC 970.64 – 1990) Lutein: 80 % - Zeaxanthin: 4 %
Free carotenoids and xanthophylls (saponification):	95,0 % minimum (Internal method)

Lutein-rich extract of *Tagetes erecta* (2a161b) content: 260 g/kg

### Proximate bromatological analysis:

Raw fiber:	8 – 12 %
Moisture:	13 – 15 % (Gravimetric method NOM-116-SSA1-1994)
Crude protein:	8 – 10 % (Volumetric method NMX-F-608-Normex2002)
Fat:	20 – 22 % (Gravimetric method NOM-086-SSA1-1994)
Ashes:	8 – 10 % (Volumetric method NMX-F-607-Normex2002)
Nitrogen free extract:	30 – 35 %

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### **4. RECOMMENDATIONS AND USES**

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Pixafil® Amarillo Polvo 40 can be added to the premix or added directly to the feed. It can be used as the only carotenoids and xanthophylls source or along with other natural or synthetic pigment products. Dosage can vary according to the xanthophylls content in other ingredients in the feed.

#### **Recommended dosage:**

The recommended dosage varies between 100 and 2.000 grams per tonne of feed depending on carotenoids and xanthophylls concentration in the feed ration and on the required color. Consult our Technical Department or your nutritionist.

#### **Authorised dosage:**

The mixture of lutein/zeaxanthin extract with other authorised carotenoids and xanthophylls shall not exceed a total carotenoids and xanthophylls content of 80 mg/kg of complete feed for poultry (except turkeys) for fattening and laying and for minor poultry species for fattening.

### **5. STORAGE AND TRANSPORT**

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Standard packaging: 20 kg of product in high density polyethylene bag inside a kraft paper bag.

Storage: Keep in a cool, dry place, protected from light, air and high temperatures.

### **6. STABILITY**

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If the product is kept sealed in its original packaging in a dry place between 10 °C and 25 °C, the expiration date is at least 18 months after the date of manufacture.

### **7. INFORMATION ON SAFETY AND TOXICOLOGY**

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Pixafil® Amarillo Polvo 40 is an innocuous and non-toxic product, 100% natural. Without regulation regarding feed withdrawal periods and regarding feed use for poultry (except turkeys) and laying hens. For further information please refer to the Material Safety Data Sheet.

### **8. PRODUCT FREE FROM DIOXINS**

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The manufacturer certifies: *“This Product has not been manufactured from products contaminated with dioxins, and it has not been in contact with materials contaminated with dioxins throughout the manufacturing or packaging process”.*

Dioxins (sum of PCDDs and PCDFs): < 1.0 ng WHO-PCDD/FTEQ/kg

Sum of dioxins and dioxin like PCBs (sum of PCDDs, PCDFs and PCBs): < 1.5 ng WHO-PCDD/FTEQ/kg

Non- dioxin-like PCBs (sum of PCB (28, 52,101, 138, 153 and 180)): < 10 ppb

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### 9. CERTIFICATE OF ANALYSIS OF OTHER UNDESIRABLE SUBSTANCES

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Arsenic (As)	< 2 mg/kg
Cadmium (Cd)	< 0.5 mg/kg
Fluorine (F)	< 150 mg/kg
Mercury (Hg)	< 0.1 mg/kg
Lead (Pb)	< 5 mg/kg

### 10. GMO CERTIFICATE

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As set out in the *Regulation (EC) No 1829/2003* and the *Regulation (EC) No 1830/2003* the manufacturer certifies this product:

- *does not contain GMO*
- *has not been produced from genetically modified organisms*
- *does not contain ingredients produced from genetically modified organisms*
- *does not require labelling in respect of the content of genetically modified organisms or the production from genetically modified organisms and/or with raw material and/or processing containing genetically modified organisms.*

The data contained in this Technical Specifications Data Sheet are based on the data submitted by the manufacturer of the product.