

## TECHNICAL DATA SHEET

Effective date: 11.2020  
Rev.1

### Annatto Powder

#### INFORMATION ON SUBSTANCE / MIXTURE

INCI	Bixa orellana seed extract
Botanical name	Bixa orellana L.
Manufacturing process	Grinding of the seeds into a powder
Parts used	Seeds

#### TECHNICAL DATA

##### Physical and chemical parameters

Appearance	Solid, powder
Color	Orange-red
Odor	Characteristic
Composition	Carotenoids: Diapocarotenoids, apocarotenoids and carotenoids: 3.5 to 6% (up to 13%). The main constituent is bixin, up to 80%. The bixin consists of bixin, methyl-9 'Z-6, 6'-daipocarin-6,6'-dioate (annatto dye), $\alpha$ -bixin monomethyl ester (red color), liposoluble and water soluble in the form of alkaline salts; this bixin transforms during heating to isobixin, a stable compound that corresponds to the all-trans form of $\beta$ -bixin; bixin is also accompanied by $\alpha$ - and $\beta$ -norbixins, methylbixin (dimethyl ester of norbixin), apocarotenoid, methylapocycopenoate, as well as small amounts of other diapocarotenoids, apocarotenoids and carotenoids. Essential oils: 0.25 to 0.85%, with ishwara as main constituent.

#### TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in closed containers, keep dry and avoid humidity.
Shelf Life	5 years, in closed packaging and the recommended conditions.
Custom tariff	-

#### LEGISLATION

Certification	-
CMR substances	This product is free from substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR) of category 1A, 1B or 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008.

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Nanomaterials	This product is not considered as a nanomaterial, and doesn't contain nanoparticles as defined by the European commission and as described in EU n°1223/2009 and 2012-232 (ANSES).
Animal testing	This product has not been tested on animals.
EINECS	289-561-2
CAS	89957-43-7

#### DISCLAIMER

All warranty claims in respect to the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the results of the manufacturer or our supplier quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when dispatched from the works. We recommend you perform your own quality and or identification checks on receipt.