

**TECHNICAL DATA SHEET**Effective date: 11.2020
Rev.1**Madder Root Powder****INFORMATION ON SUBSTANCE / MIXTURE**

INCI	Rubia tinctorum root powder
Botanical name	Rubia tinctorum L.
Manufacturing process	Dried roots are ground into powder
Parts used	Root

TECHNICAL DATA**Physical and chemical parameters**

Appearance	Solid, powder
Color	Reddish-brown
Odor	Characteristic
Composition	Alizarin-glucoside (C ₂₆ H ₂₈ O ₄), under the action of the diastase called rubiase, decomposes into dextrose and alizarin (C ₁₄ H ₈ O ₄); Purpurin-glucoside, under a similar action, is decomposed into dextrose and purpurine (C ₁₄ H ₈ O ₅); Rubella-glucoside (C ₂₁ H ₂₀ O ₉), under a similar action, is decomposed into dextrose and rubiadine. The roots contain a certain proportion of alizarin in the free state (red color); they contain in addition a green substance, chlorogenine, alkaline salts, citric acid, 14-15% sugars (sucrose, dextrose), pectic substances, madder camphor (C ₂₀ H ₁₈ O ₂), hydrogen carbide (C ₂₀ H ₁₆), etc.

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in closed containers at a temperature preferably below 15°C, 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	-
CAS	8057-49-6

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.