

**TECHNICAL DATA SHEET**Effective date: 04.2019
Rev.1**Brown 23 Oxide Cosmetic Pigment****INFORMATION ON SUBSTANCE / MIXTURE**

INCI	CI 77499, CI 77491, CI 77492
Origin	Mineral pigment
PCPC name	Iron oxides, Iron oxides, Iron oxides
Description	High purity brown iron oxide
Color Index	77499/ 77491/ 77492
Additives (< 0,1 %)	Alumina, Magnesium Oxide

TECHNICAL DATA**Physical parameters**

Appearance	Solid, powder
Color	Brown
Solubility	Insoluble in oil and water.
Water soluble matter	Max 0.3 %
Volatile matter (105°C)	Max 1.0 %
Specific surface	8 - 13 m ² /g
Light stability	Good

Chemical parameters

Heavy metals	ppm
Lead	0 - 10
Zinc	0 - 100
Arsenic	0 - 3
Copper	0 - 50
Mercury	0 - 1
Barium	0 - 50
Chromium	0 - 50
Cadmium	0 - 1
Nickel	0 - 50
Cobalt	0 - 30

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Antimony	0 - 10
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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	-
EU - 1223/2009/EC ^[1]	Annex IV : CI 77499 *, Annex IV : CI 77491 *, Annex IV : CI 77492 *
EU - 231/2012/EU ^[1]	E172, E172, E172
USA	Iron oxides ** (meets the requirements of U.S. Title 21 CFR § 73.2250)
JAPAN	Black oxide of iron, Red oxide of iron, Yellow oxide of iron
CHINA	CI 77499 *, CI 77491 *, CI 77492 *
EINECS	215-277-5/ 215-168-2/ 257-098-5
CAS	1317-61-9/ 1309-37-1/ 51274-00-1

* Product type, body part : allowed in all cosmetics. ** exempt from certification ; for coloring cosmetics, including cosmetics applied to the area of the eye. [1] including amendments

DISCLAIMER

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