

## TECHNICAL DATA SHEET

Effective date: 08.2022  
Rev.1

### 23 BROWN Cosmetic Pigment

#### INFORMATION ON SUBSTANCE / MIXTURE

|             |                                                                                |
|-------------|--------------------------------------------------------------------------------|
| INCI        | Iron Oxide Red CI 77491, Iron Oxide Yellow CI 77492, Iron Oxide Black CI 77499 |
| Description | Inorganic cosmetic pigment                                                     |
| CAS No.     | 1309.37.1-20344.49.4-1317.61.9                                                 |

#### TECHNICAL DATA

##### Composition

|                   |          |              |
|-------------------|----------|--------------|
| Red Iron Oxide    | CI 77491 | 30.0 –50.0 % |
| Yellow Iron Oxide | CI 77492 | 30.0 –50.0 % |
| Black Iron Oxide  | CI 77499 | 10.0 –20.0 % |

##### Physical parameters

|               |                            |
|---------------|----------------------------|
| Appearance    | Solid, powder              |
| Solubility    | Insoluble in water and oil |
| Particle size | 1µm                        |

##### Chemical parameters

| Heavy metals | ppm       |
|--------------|-----------|
| As           | < 2 ppm   |
| Ba           | < 50 ppm  |
| Cd           | < 3 ppm   |
| Cr           | < 100 ppm |
| Cu           | < 50 ppm  |
| Hg           | < 1 ppm   |
| Ni           | < 10 ppm  |
| Pb           | <10 ppm   |
| Sb           | < 1 ppm   |
| Zn           | < 50 ppm  |

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#### Microbial purity

|                            |               |
|----------------------------|---------------|
| Total viable Aerobic count | < 100         |
| E. Coli                    | Absent in 1 g |
| Pseudomonas aeruginosa     | Absent in 1 g |
| Staphylococcus aureus      | Absent in 1 g |
| Salmonella species         | Absent in 1 g |
| Candida albicans           | Absent in 1 g |

#### TRANSPORT, STORAGE and SHELF LIFE

|                    |                                                                      |
|--------------------|----------------------------------------------------------------------|
| Storage conditions | Store in closed containers, keep dry and avoid humidity.             |
| Shelf Life         | Up to 5 years, in closed packaging under the recommended conditions. |

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