drstraetmans

# Technical Data Sheet



| 1. | **INFORMATION ON INGREDIENT** | |
|---|---|---|
| 1.1 | Trade Name | **dermofeel® PA-12** |
| 1.2 | Manufacturer | |
| 1.3 | Supplier | Dr. Straetmans GmbH<br>Merkurring 60 -62<br>D-22143 Hamburg, Germany<br>Tel.: +49 - (0)40 - 66 93 56 0<br>Fax: +49 - (0)40 - 66 93 56 10<br>E-Mail: info@dr-straetmans.de |
| 1.4 | Ingredient Category | Chelating agent |
| 1.5 | Chemical Description | myo-Inositol hexakis dihydrogenphosphate sodium salt |
| 1.6 | INCI-Name | Sodium Phytate |
| 1.7 | EINECS / ELINCS | 238-242-6 |
| 1.8 | CAS-no. | 14306-25-3 |
| 1.9 | for colors:<br>C.I.<br>Colipa-no. | Not applicable |
| 1.10 | Registration Status | EU: registered<br>US: registered<br>Japan: JCIC 559718 |

| 2. | **MANUFACTURING PROCESS INFORMATION** | |
|---|---|---|
| 2.1 | Origin of starting material | Vegetable |
| 2.2 | Description of manufacturing process | Extraktion from corn with diluted mineral acid and subsequent ion exchange |
| 2.3 | Residues from Manufacturing | |
| 2.3.1 | Catalyst | Not to be expected |
| 2.3.2 | Solvent | Up to 4% Water |
| 2.3.3 | Others | Not to be expected |
| 2.4. | Storage Time | 12 months |

| 3. | **SPECIFICATION** | |
|---|---|---|
| 3.1 | Assay | Min 96% |
| 3.2 | Additives | |
| 3.2.1 | Preservation, % | None |
| 3.2.2 | Antioxidants, % | None |
| 3.2.3 | Solvent, % | None |
| 3.2.4 | Other Additives, % | None |

| | | |
|---|---|---|
| 3.3 | Microbiological Specification | |
| 3.3.1 | Total Plate Count (cfu/g)<br>Aerobic Germs (cfu/g) | No contamination expected<br>No contamination expected |
| 3.3.2 | Pathogene Organisms | No contamination expected |
| 3.4 | Impurities | |
| 3.4.1 | 1,4-Dioxan | Not to be expected |
| 3.4.2 | Ethylenoxide | Not to be expected |
| 3.4.3 | Residual Solvent | |
| 3.4.4 | Monomers | Not to be expected |
| 3.4.5 | Free Amines | Not to be expected |
| 3.4.6 | Nitrosamines | Not to be expected |
| 3.4.7 | Heavy Metals as Pb<br>(Ni, Pb, As, Cd, Cu, Sb, Cr, Hg) | < 30 ppm |
| 3.4.8 | Pesticides | Not known |
| 3.4.9 | Polyaromatic Hydrocarbons | Not known |
| 3.4.10 | Other Impurities | Not known |
| 3.5 | Analysis | |
| 3.5.1 | Methods Detections Limits | Specification and methods see attachment |
| 3.5.2 | Analysis of Impurities<br>(Methods Detections Limits) | Specification and methods see attachment |

| **4.** | **TOXICOLOGY** | |
|---|---|---|
| 4.1 | Acute Toxicology | $LD_{50}$ oral [mg/kg]:<br>Rat ca. 1030<br>mouse ca. 1030 |
| 4.2 | Dermal Irritation | Irritating |
| 4.3 | Mucous Irritation | Irritating |
| 4.4 | Sensitization | Not reported |
| 4.5 | Genotoxicity (e.g. Ames-Test) | Not mutagenic |
| 4.6 | Percutaneous Permeation | Not known |
| 4.7 | Subchronic Toxicity | Not known |
| 4.8 | Teratogenicity | None |
| 4.9 | Toxicokinetics | Not known |
| 4.10 | Additional Toxicitytests | Not known |
| 4.11 | Phototoxicity | Not known |
| 4.12 | Photosensitization | Not known |
| 4.13 | Inhalative Toxicity | Not applicable |

| **5.** | **HUMAN EXPERIENCE** | |
|---|---|---|
| 5.1 | Data on Human Dermal Irritation | At pH-values usually employed in cosmetic products no negative effects of the product has been reported |
| 5.2 | Data on Human Sensitization | At pH-values usually employed in cosmetic products no negative effetcs of the product has been reported |

| **6.** | **ECOLOGICAL DATA** | |
|---|---|---|
| 6.1 | Biological Elimination | Readily biodegradable (OECD 301 A & F) |
| 6.2 | Aquatic Toxicity | $EC_{50}$ Daphnia Magna (48h):<br>> 100 mg/l (OECD 202) |
| 6.3 | Water Endagering Class | 1 (self-classification) |
| 6.4 | Bioaccumulation Potential | Not known |
| 6.5 | Other Information | None |

| **7.** | **SAFETY DATA SHEET** | see attachment |
|---|---|---|