

Raw Material Information Profile



Product name: DHA Brun utan sol
Art No. 4358
Country of origin: FRANCE

1. Regulatory status

a. Cosmetic regulations compliance

Composition

| INCI Name | CAS # | EC # | % |
|------------------|---------|-----------|-----|
| Dihydroxyacetone | 96-26-4 | 202-494-5 | 100 |

Additives (intentionally added to maintain quality or stability...)

| INCI Name | CAS # | EC # | % |
|-------------|-------|------|---|
| <i>none</i> | | | |

Cosmetic Regulations Status

| COUNTRY | Regulation | YES | NO | % restricted or comment |
|----------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| USA | California Safe Cosmetic Act | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Canada | Canada Cosmetic Law | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Europe | EU Cosmetic Regulation 1223/2009 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Ingredients listed in annexes: none |
| China | IECIC 2015 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | China Food and Drug Administration | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Japan | Cosmetic Standards | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | Quasi-drugs | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Korea | Korean Cosmetic Law | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Mexico | Mexico Cosmetic Directive | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| MERCOSUR | Mercosur Cosmetics | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Taiwan | Taiwan Cosmetic Regulation | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

b. Chemical regulations compliance

Composition

Raw Material Information Profile



| Chemical Name | CAS # | EC # | % |
|----------------------|---------|-----------|-----|
| 1,3-Dihydroxyacetone | 96-26-4 | 202-494-5 | 100 |

Additives (intentionally added to maintain quality or stability...)

| Chemical Name | CAS # | EC # | % |
|---------------|-------|------|---|
| NONE | | | |

Global Inventories Status

| COUNTRY | INVENTORY | YES | NO | Additional information |
|-------------|---|-------------------------------------|-------------------------------------|--|
| USA | TSCA listed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| CANADA | DSL listed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | NDSL listed | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | Low volume exemption | <input type="checkbox"/> | <input type="checkbox"/> | |
| EUROPE | EINECS listed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | ELINCS listed | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | REACH Compliant | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Status: registered (#01-2119381291-42) |
| AUSTRALIA | AICS listed (Substances occurring in nature are exempted) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | low volume chemical permit /Low volume exemption* | <input type="checkbox"/> | <input type="checkbox"/> | |
| PHILIPPINES | PICCS listed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | Small Quantity Importation* | <input type="checkbox"/> | <input type="checkbox"/> | |
| CHINA | IECSC listed (Substances occurring in nature are exempted) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| JAPAN | ENCS listed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | ISHL listed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | Low volume exemption* | <input type="checkbox"/> | <input type="checkbox"/> | |
| KOREA | K-REACH | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| TAIWAN | TCSI listed (Substances occurring in nature are exempted) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| NEW ZEALAND | NZIoC listed (Exemption applies if not regulated by HSNO act) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

* Low volume exemption or Low volume chemical permit is only based on the assumption that the ingredient is imported by Givaudan or its representative(s).

By-products and impurities

Based on our actual knowledge of our production process, raw materials and equipment used, we expect that the material contains:

| | Not expected | Yes | Substance & Max. content |
|-------------------|--------------------------|-------------------------------------|---|
| Residual solvents | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Bioethanol < 0,05% Formic acid < 0,15% |

Raw Material Information Profile



| | | | |
|---|-------------------------------------|-------------------------------------|--|
| Phthalates | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Free Ethylene Oxide | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Polycyclic Aromatic Hydrocarbon | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Glycol Ether | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1,4-Dioxane | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Nitrosamines | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Diethylene glycol | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Volatile Organic Compounds mentioned in the Swiss list RD814.018 - Ordinance on the incentive tax | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Formaldehyde or Formaldehyde releaser | <input type="checkbox"/> | <input checked="" type="checkbox"/> | ≤ 53 ppm (at the time the product is manufactured) |
| Dioxin | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Acrylamides | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Other impurities | <input type="checkbox"/> | <input type="checkbox"/> | |

2. Product Specification

- Refer to Specifications sheet

3. Manufacturing and ingredients

Production process

- Refer to Flow chart
- ISO certification

Origin

| Ingredient | Origin* | Country of origin |
|------------------|-------------------------|-------------------|
| Dihydroxyacetone | Natural (Biotechnology) | France |

*Natural or Synthetic

Natural raw material of vegetal, animal, mineral or microbiological origin, as such, obtained by physical, enzymatic or microbiological processes, or obtained by traditional preparation processes (e.g. extraction, distillation, heating, torrefaction, fermentation)

- We hereby confirm that we do not use CITES regulated vegetal species as intentional components of the raw material.

GMO

- We hereby confirm that the raw material is not obtained from Genetically Modified Raw Materials (G.M.O.) and does not contain Genetically Modified Organisms (G.M.O.).
- The components of culture medium are non genetically modified.

Raw Material Information Profile



BSE

- We hereby confirm that the raw material does not contain and is not derived from, Specified Risk Material as defined in Commission Directive 97/534/EC. Based on this, the raw material is BSE-free.

Heavy metals

- We hereby confirm that the total sum of results of heavy metals contained in the raw material is lower than 20 p.p.m. (mg/kg).
 Refer to statement

Pesticides

- Based on information concerning the raw materials, production process, and equipment used, we hereby confirm that pesticides are not like to be present.
 Refer to statement

Palm oil

- We hereby confirm that the raw material does not contain palm oil or derived.

Nanomaterials

- We hereby confirm that the raw material is not a Nanomaterial as defined by the Cosmetic EU Regulation N°1223/2009, the French Decree N°2012-232 and the European Commission Recommendation N°2011/696.

4. Safety and Environment

Toxicological information

- We hereby confirm that the raw material is in compliance with the requirement of the EU Cosmetic Regulation (EC) N°1223/2009 regarding the ban on animal testing and with regards to the marketing in the EU of cosmetic products.
 Refer to Toxicological summary

Ecotoxicological information

- Refer to Safety Data Sheet

5. Certifications

| | Yes | No | Not checked |
|------------------|-------------------------------------|--------------------------|-------------------------------------|
| Halal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Kosher | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Ecocert approved | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Cosmos approved | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

6. List of the documents available

- Flow chart
 ISO certificate
 FS/Specification
 Heavy metals statement
 Pesticides statement
 Toxicological summary
 SDS
 SVHC statement

Raw Material Information Profile



- CMR statement
- Prop65 statement
- Allergens certificate
- Ecocert approval attestation
- Cosmos approval attestation
- Halal certificate
- Kosher certificate



Technical Data Sheet

4358

DHA Brun utan sol

Product information

| | |
|------------------|----------------------|
| Chemical name | 1,3-Dihydroxyacetone |
| Molecular weight | 90,00 g/mol |
| CAS number | 96-26-4 |
| Color | white |
| Appearance | powder |

Parameters for positive release

| Analysis | Specification Limits | Method |
|----------------------|----------------------|------------------------------|
| Appearance | Conform | |
| Color (visual color) | Conform | |
| Sensory evaluation | Conform | |
| Melting point | 60,0 - 90,0 °C | Standard PF |
| pH | 4,5 - 6,5 | Standard pH B |
| Purity | 98,0 - 102,0 %/DM | Standard INS-100 400 P03 1-4 |
| Ash | <= 0,10 %/DM | Standard C550 |
| Water content | <= 0,2 % | Standard KF |
| Total plate count | <= 100 CFU/g | Standard FT A |
| Yeasts and moulds | <= 10 CFU/g | Standard LM A |

Storage and handling

| | |
|------------------------|--------------------------------------|
| Shelf life | 30 months |
| Storage conditions | Preferably full, hermetically sealed |
| Temperature conditions | Refrigerated 2-10°C (35-50°F) |
| Handling | Protect against light. |

Miscellaneous

| | |
|----------------------|---------|
| Custom Tariff number | 2914.40 |
|----------------------|---------|

The information contained herein is, to the best of our knowledge, true and accurate.

All information is valid until revisions are issued.

Version: Final / 5

Flow chart



PRODUCTION PROCESS FOR VEGETAN DIHYDROXYACETONE CRISTAL - (4358 DHA Brun utan sol)

