# Soil Association Certification

## COSMOS raw material questionnaire

### Checking non-organic raw materials according to the COSMOS STANDARD

For completion by manufacturer of the raw material, add additional lines where necessary. In all cases complete section I and III. Complete section II as follows: if your raw material is chemically processed complete section II.1; if your raw material is physically processed complete section II.2; if your raw material contains any additives complete section II.3.

### I General information about your company and your product

| | | | | | |
|---|---|---|---|---|---|
| Manufacturer company name | ESCO Vatel S.A. • Apartado 211-Sobralinho • P-2616-956 • Alverca • Portugal | | | | |
| Trade name | Vatel SeaSalt crystalline | Raw material / ingredient | | | |
| Address including postcode/zip code | Vatel S.A. • Apartado 211-Sobralinho • P-2616-956 • Alverca • Portugal | | | | |
| Contact person | | Tel | | Fax | |
| Email | | | | | |
| Supplier/distributor (if different indicate address, telephone, fax) | Kutilov, melnicka 133, Benatky nad jizerou | | | | |
| INCI denomination | | CAS Number | 7647-14-5 | | |
| Chemical formula | NaCl | Category / function | salt | | |

### II Reagents origin and manufacturing processes

### 1. Chemically processed ingredients

For each chemically processed agro-ingredient, answer the following questions:
*(Example: Glyceryl stearate)*

A Origin of reagents and solvents used for manufacturing

1. For each reagent and solvent used in the manufacturing process, fill in the following table (all requested percentages must be expressed in weight) *(Example: Glyceryl stearate, 10%)*

| Chemical name and CAS no. | % Natural origin | | | Petro - chemical % | Contained additives (antioxidants preservatives etc) | | Manufacturing process |
|---|---|---|---|---|---|---|---|
| | Vegetable** | Animal | Mineral | | Name | % | |
| Glycerol 56-81-5 | 100 | | | | | | saponification of a vegetable oil |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Stearic Acid 57-11-4 | 100 | | | | | | saponification, neutralization and distillation without solvent of a vegetable oil, |
| | | | | | | | |
| | | | | | | | |

* If your manufactured ingredient contains a synthetic moiety, as authorized in the Standard, appendix VI, specify the presence percentage of this moiety (on the active matter Molecular Weight), as well as the ingredient involved

** All plants used as raw materials for reagents or solvents used for manufacturing should meet the CITES requirements (Convention on International Trade in Endangered Species of Wild Fauna and Flora). For all plants used as raw materials, please confirm the following:

| Plant name | Origin of plant (country) | Plant name | Origin of plant (country) |
|---|---|---|---|
| | | | |
| | | | |

2. Indicate for each of the following processes whether it enters in the manufacturing of used reagents or solvents:

| | | | |
|---|---|---|---|
| 1. Ethoxylation | YES ☐ NO ☐ | 2. Irradiation | YES ☐ NO ☐ |
| 3. Sulfonation | YES ☐ NO ☐ | 4. Petrochemical catalysis | YES ☐ NO ☐ |
| 5. Treatment using mercury | YES ☐ NO ☐ | 6. Ethylene oxide treatment | YES ☐ NO ☐ |
| 7. Solvent recovery (extracting agent removal) | YES ☐ NO ☐ | 8. Extraction: specify the solvents used for extraction | |
| 9. Techniques using genetic manipulations | YES ☐ NO ☐ | 10. Do you use any GM raw materials, ingredients or micro-organisms? | YES ☐ NO ☐ |
| 11. Do you use the following products among your reagents? MEA, DEA, TEA | YES ☐ NO ☐ | | |

## B Origin of manufacturing auxiliaries

1. Indicate for each of the following processes whether it enters in the production process of the auxiliaries used for manufacturing the ingredient to be validated (pH adjuster, catalyst …) :

| | | | |
|---|---|---|---|
| 1. Ethoxylation | YES ☐ NO ☐ | 2. Irradiation | YES ☐ NO ☐ |
| 3. Sulfonation | YES ☐ NO ☐ | 4. Petrochemical catalysis | YES ☐ NO ☐ |
| 5. Treatment using mercury | YES ☐ NO ☐ | 6. Ethylene oxide treatment | YES ☐ NO ☐ |
| 7. Solvent recovery (extracting agent removal) | YES ☐ NO ☐ | 8. Extraction: specify the solvents used for extraction | |

| | | | |
|---|---|---|---|
| 9. Techniques using genetic manipulations | YES ☐ NO ☐ | 10. Do you use any GM raw materials, ingredients or micro-organisms? | YES ☐ NO ☐ |
| 11. Do you use the following products among your reagents? MEA, DEA, TEA | YES ☐ NO ☐ | | |

## C Manufacturing process of the product to be validated

Manufacturing process description (detail below or attach flow chart)
Example : fatty acid production
OIL → Saponification → Stripping → Neutralisation → Fatty acid

Indicate for each of the following processes whether it enters in the product manufacturing:

| | | | |
|---|---|---|---|
| 1. Ethoxylation | YES ☐ NO ☐ | 2. Irradiation | YES ☐ NO ☐ |
| 3. Sulfonation | YES ☐ NO ☐ | 4. Techniques using genetic manipulations | YES ☐ NO ☐ |
| 5. Petrochemical catalysis | YES ☐ NO ☐ | 6. Ethylene oxide treatment | YES ☐ NO ☐ |
| 7. Treatment using mercury | YES ☐ NO ☐ | 8. Quaternization | YES ☐ NO ☐ |
| 9. Use of solvents for the manufacturing and the purification of your chemically transformed ingredient | YES ☐ NO ☐ | 10. If yes to question 9, do you use aromatic, halogenated, sulfured, or nitrogened solvents? | YES ☐ NO ☐ |
| 11. Specify the solvents used for extraction | | 12. Solvent Recovery (Extracting agent removal) | YES ☐ NO ☐ |
| 13. Hydrogenation | YES ☐ NO ☐ | 14. Hydrolysis | YES ☐ NO ☐ |
| 15. Esterification | YES ☐ NO ☐ | 16. Etherification | YES ☐ NO ☐ |
| 17. Sulphatation | YES ☐ NO ☐ | 18. Fermentation | YES ☐ NO ☐ |
| 19. Indicate the percentage of Active Matter of your chemically transformed ingredient | | | % |

## D General questions regarding the principles of green chemistry

| | |
|---|---|
| 1. Atoms economy principle: last reaction's output R= (mass of the wanted product/mass of all products)*100. What is the result? (This must be specified for all chemically processed agro-ingredients) | R= |
| 2. During the manufacturing of your chemically transformed ingredient, are there temporary modifications (e.g. protection/deprotection of functional groups)? | YES ☐ NO ☐ |
| 3. Have you set up a procedure to reduce the number of these temporary modifications? | YES ☐ NO ☐ |
| 4. Does the manufactured ingredient meet the requirement of the Cosmos Standard as regards biodegradability and aquatic toxicity? | YES ☐ NO ☐ |

## E Other questions

1. If your manufactured ingredient contains a synthetic moiety, as authorized in the Standard, appendix VI, specify the presence percentage of this moiety (on the active matter), as well as the ingredient involved.
Example : Cocoamidopropylbetaine
CAS N° 61789-40-0, Molecular Weight: 342, Synthetic Moiety Molecular weight : 159,
Petrochemical % = 159/342 = 45.2 %

| 2. Additives: List of additives (antioxidants, preservatives etc) contained in the manufactured ingredient | | | | |
|---|---|---|---|---|
| Chemical Names and CAS no. | Function | Origin | | Weight % |
| | | Synthetic | Natural | |
| Sodium Benzoate 532-32-1 | Preservative | ☐ | ☐ | 0.10% |
| Tocopherol 59-02-9 | Antioxidant | ☐ | ☐ | 1.00% |
| | | ☐ | ☐ | |
| | | ☐ | ☐ | |
| | | ☐ | ☐ | |
| | | ☐ | ☐ | |

## 2. Physically processed ingredients

| A Plant ingredients | | | |
|---|---|---|---|
| 1. List all the plant ingredients used for manufacturing, the used weight percentage and the manufacturing processes that were needed for their preparation. All plants used as raw materials should meet the CITES requirements (Convention on International Trade in Endangered Species of Wild Fauna and Flora ).<br>(Example : Sunflower Oil Extract of Sida Ruta : 10% ) | | | |
| Name | Percentage % | Contained additives (antioxidants, preservatives etc.) | Manufacturing process |
| Sunflower oil | 70 | | Cold pressing |
| Sida Ruta | 30 | | Harvesting and grinding of fresh plant |
| | | | |
| | | | |
| | | | |
| 2. Has a solvent of petrochemical origin been used for obtaining these ingredients? | | | YES ☐ NO ☐ |
| 3. Are any of the ingredients listed above irradiated? | | | YES ☐ NO ☐ |
| 4. If yes, which ones (specify the type of irradiation)? | | | |
| 5. Solvent Recovery (Extracting agent removal)? | | | YES ☐ NO ☐ |
| 6. For all plants used as raw materials, please confirm the following : | | | |

| Plant name | Origin of plant (country) | Plant name | Origin of plant (country) |
|---|---|---|---|
| | | | |
| | | | |

## B Animal origin ingredients

1. List all ingredients from animal origin present in your manufactured product and their percentage

| Name | Percentage | Contained additives (antioxidants, preservatives etc.) | | Manufacturing process |
|---|---|---|---|---|
| | | Name | % | |
| Bees Wax | 5 | | | Melting of the cappings |
| | | | | |
| | | | | |

| | |
|---|---|
| 3. Do the ingredients listed above require the death of the animal? | YES ☐ NO ☐ |
| 4. Has a solvent of petrochemical origin been used for obtaining these ingredients? | YES ☐ NO ☐ |
| 5. If yes to question 4, please state which ingredients? | |
| | |
| 6. Are any of the ingredients listed above irradiated? | YES ☐ NO ☐ |
| 7. Solvent recovery (extracting agent removal)? | YES ☐ NO ☐ |

## C Mineral origin ingredients: enclose SDS or granulometric analysis indicating minimum particle size for $TiO_2$, ZnO, $CeO_2$, silica

1. List all ingredients from mineral origin of your raw material and their percentage, as well as the physical processes that were needed for their preparation.

| Name | % | Manufacturing process | Impurities | |
|---|---|---|---|---|
| | | | Chemical name | ppm |
| Calcium carbonate | 5 | Grinding | Lead | 5 |
| | | | | |
| | | | | |
| | | | | |

| | |
|---|---|
| 2. Are any of the ingredients listed above irradiated? | YES ☐ NO ☐ |
| 3. If yes to question 2, specify which ingredients and the type of irradiation | |
| 4. Are all the ingredients listed above present in the appendix IV of the standard? | YES ☐ NO ☐ |
| 5. If no to question 4, specify which ones are not in appendix IV? | |
| 6. Do the ingredients require labelling as nanoparticles on the cosmetic products according to the 1223/2009/CE European Cosmetic Regulation definition? | YES ☐ NO ☐ |
| 7. If yes to question 6, please specify which ingredients | |

| |
|---|
| |

| D Manufacturing process of the product to be validated |
|---|
| 1. Manufacturing process description (detail below or attach flow chart)<br>Example: oil extract preparation<br>Plant material oil → Extraction → Separation → Oil extract |

### 3. Additives (preservatives, antioxidants etc)

| Additives: list all additives present in your manufactured ingredient and their percentage | | | | |
|---|---|---|---|---|
| Chemical Names and CAS no. | Function | Origin | | Weight % |
| | | Synthetic | Natural | |
| Sodium benzoate 532-32-1 | Preservative | ☐ | ☐ | 0.10% |
| | | ☐ | ☐ | |
| | | ☐ | ☐ | |

### III Environmental data

| General | |
|---|---|
| 1. Have you evaluated and established a procedure for limiting accident risks (human and environmental)? | YES ☐ NO ☐ |
| If yes, please provide detail | |
| | |
| 2. Have you evaluated and established a procedure for the management of waste production (recycling and others) in the manufacturing of this raw material or for your manufacturing plant in general? | YES ☐ NO ☐ |
| 3. If yes please provide detail | |
| | |
| 4. Have you evaluated and established a procedure for energy economy in the manufacturing of this ingredient or for your manufacturing plant in general? | YES ☐ NO ☐ |
| 5. If yes to question 4, please provide detail | |
| | |

| Declaration | | | |
|---|---|---|---|
| To the best of my knowledge, all the information supplied in this form is accurate. | | | |
| Name | | Date | |

| | |
|---|---|
| Signature | |
| I have completed this form electronically and confirm I am in agreement with the declaration above. | ☐ |