

Additional information for Organic certified Chemically Processed Agro Ingredient
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In order to check the conformity of the organic certified chemically processed agro ingredient according to the Cosmos standard for cosmetics, the manufacturer of the raw material needs to complete and sign this questionnaire.

Name of the manufacturer:	Geo-Fresh Nutraceuticals
Commercial name of the raw material:	Organic Glycerin
Complete INCI Name :	Organic Glycerin

I- General questions regarding the principles of green chemistry:

- **Atoms economy principle: last reaction's output ***

R= (mass of the wanted product/mass of all products) x 100

What is the result? (must be specified for all chemically processed agro-ingredients).

R = 11% to 12%

- **During the manufacturing of your chemically transformed ingredient, are there temporary modifications** (e.g. protection/deprotection of functional groups)?

YES NO

- **Have you set up a procedure to reduce the number of these temporary modifications? –Not Applicable**

YES NO

- **Does the manufactured ingredient meet the requirement of the Cosmos Standard as regards biodegradability and aquatic toxicity? ***

YES NO

II-Active Matter:

- Indicate the percentage of Active Matter of your chemically transformed ingredient:

NA

- If different of 100%, please precise the remaining solvents, additives, etc...:

I undersigned, Miss Rinkal Patel, representing the company, Geo-Fresh Nutraceuticals, declare that the information given in this for questionnaire is correct.

Issued in 17th December 2019, on the.

Obligatory signature (preceded by the mention « read and approved »)



Reminder:

Full standard available at <http://cosmos.ecocert.com>.

***Article 6.1.4 Chemically processed agro-ingredients**

- **Atom economy**

The principle of Atom economy is not applicable to processes of fermentation.

- **Non-persistent products**

1) Minimum requirement for Aquatic toxicity
LC50, EC50, IC50 > 1 mg/l

2) Relation of biodegradability to aquatic toxicity

Aquatic Toxicity: EC50 = 1-10 mg/l (daphnia)

-INHERENT Biodegradability: > 95 % (OECD 302 test methods)

AND

-RAPID Biodegradability pass levels: 70% removal of DOC and 60% of ThOD or ThCO₂ production for respirometric methods (OECD 301 test methods)

OR

Aquatic Toxicity: EC50 = > 10 mg/l (daphnia)

RAPID Biodegradability pass levels: 70% removal of DOC and 60% of ThOD or ThCO₂ production for respirometric methods (OECD 301 test methods)

3) Substances, known to be bio-accumulative and not biodegradable (do not pass OECD 301 test methods; => TEGEWA classification III = high waste water impact) are prohibited.