

Dermatest



"Reef Safe" Sunscreen

The toxicity and the biodegradability of a substance are the two main characteristics needed to be studied in order to confirm lack of impact impact of a substance or a product on the marine ecosystems. Adding to a toxicity tests, the ecotoxicity assays and the biodegradability parameter give more details regarding a product, such as a sunscreen, which has the potential to end up in the up environment,.

Ecotoxicity Tests in Marine Environment

- Marine Algae (Phaeodactylum tricornutum): NF EN ISO 10253
- Crusteceans copepods (Acar3a tonsa): FD ISO 14669
- Crusteceans (Artemia salina): from FD ISO 14669
- Amphipods (*Corophium arenarium*): NF ISO 16712
- Bacteria (Vibrio fischeri): NF EN ISO 11348-3
- Bivalves (Oysters:

Crassostrea gigas): NF ISO 17244

- Echinoids (Paracentrotus lividus): from EPA 1008 Purple urchin
- Coral test (*Seriatopora hystrix*): Intern Method

Biodegradability Tests

There are a number of these to choose from and at least one should be considered ...

- . **OECD 301** Readily biodegradability:
- OECD 301A: DOC Die-Away
- OECD 301B: CO2 Evoluton (Modified Sturm Test)
- OECD 301D: Closed Bo^le
- **OECD 301F**: Manometric Respirometry
- . **OECD 302** Inherent Biodegradability:
- OECD 302B: Zahn-Wellens/ EVPA Test



1. Paracentrotus lividus



SERIATOPORA HYSTRIX