

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

- 1.1. Product name : TerraCottem®
Character of the product : Physical soil conditioner
- 1.2. Company : TerraCottem N.V.
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2. COMPOSITION

Dry, granular mixture of different hydroabsorbent propénamide-propénoate copolymers, mineral and synthetic-organic fertilizers, mineral and organic precursors of vitamins and plant hormones (cytokinines and berlinnines) and volcanic pyroclastic rock.

3. GENERAL HEALTH HAZARDS

No particular health hazards known.

4. FIRST AID MEASURES

- 4.1. Skin contact : Wash with water and soap.
4.2. Eye contact : Rinse with much water for a prolonged time.
4.3. Inhalation : Breath fresh air.
4.4. Ingestion : If ill effects occur seek medical advice immediately.

5. FIRE-FIGHTING MEASURES

- 5.1. Fire-fighting procedure : No special requirements.
5.2. Specific hazards : In case of fire carbon monoxide, nitrogen oxides.
5.3. Special protective equipment : No special requirements.
5.4. Suitable extinguishing media : Water mist, foam, carbon dioxide, dry powder.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions : Spilled product in contact with water makes surfaces extremely slippery.
6.2. Cleaning procedure : Sweep up or vacuum up for recuperation or disposal.
6.3. Disposal procedure : Never dispose in lavabo, sink or sewer.
In contact with water blockage may occur.

7. HANDLING AND STORAGE

- 7.1 Safe handling advice : Use respiratory protection when dust is formed.
Ensure sufficient workplace ventilation.
- 7.2. Requirements for storage : Store in a dry area and avoid contact with water or moisture.
Avoid direct contact with sunlight.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- 8.1. Components with limited professional exposure : Recommended limit for fine, inhalable polyacrylate dust below 0.01 mm is 0,05 mg/m³.
- 8.2. Personal protection equipment :
Respiratory protection : Use respiratory protection when dust is formed.
Hand protection : Does not apply.
Eye protection : Use protective goggles.

9. **PHYSICAL AND CHEMICAL CHARACTERISTICS**

9.1. Form :	Mixture of granules and powder.
9.2. Colour :	White, brown, blue, beige and grey mixture.
9.3. Odour :	Odourless.
9.4. Bulk density :	+/- 800 Kg/m ³ .
9.5. Fusing temperature :	Not applicable.
9.6. Starts to boil at :	Not applicable.
9.7. Flashpoint :	Not applicable.
9.8. Ignition temperature :	> 121 °C.
9.9. Upper explosion limit :	Not applicable.
9.10. Vapour pressure at 20°C :	< 20 hPa.
9.11. Watersolubility at 20°C :	Essentially insoluble.
9.12. Dynamic viscosity at 20°C :	Not applicable.
9.13. pH at 1,0 g/l :	~7.

10. **STABILITY AND REACTIVITY**

10.1. Stability :	Stable in usual conditions.
10.2. Compatibility :	No other materials to avoid.
10.3. Thermal decomposition :	> 150°C.
10.4. Spontaneous polymerisation :	No single risk.

11. **TOXICOLOGICAL INFORMATION**

11.1. Acute oral toxicity :	LD 50 - dose > 5000 mg/kg - limit test.
11.2. Acute dermal toxicity :	LD 50 - dose > 2000 mg/kg - limit test.
11.3. Skin irritation :	Rabbit - Method OECD nr. 404 - Not irritative to the skin.
11.3. Eye irritation :	Rabbit - Method OECD nr. 405 - Not irritative.
11.4. Sensitization :	No sensitization.

12. **ECOLOGICAL INFORMATION**

12.1. Aquatic biota :	
- Bacterial luminescence inhibition	NOEC ^(*) <i>Vibrio fischeri</i> bacteria 4000 - 6000 mg/l - 30m. exposure time – ISO test method 11348-3
- Algal growth inhibition	NOEC <i>Pseudokirchneriella subcapitata</i> 5000 - 9000 mg/l - 72h. exposure time – ISO test method 8692
- Daphnia magna acute toxicity	NOEC <i>Daphnia magna</i> 4500 - 6500 mg/l - 24h. exposure time – ISO test method 6341.2
12.2. Terrestrial biota :	
- Ostracod mortality and growth inhibition	<i>Heterocypris incongruens</i> No negative effects - 144h. exposure time – Standard Test Procedure of the Ostracodtoxkit microbiotest
- Seed germination and early growth	test of higher plants <i>Sorghum saccharatum</i> , <i>Lepidium sativum</i> , <i>Sinapsis alba</i> No negative effects - 72h. exposure time – Standard Test Procedure of the Phytotoxkit microbiotest

(*) No Observed Effect Concentration level

13. INFORMATION CONCERNING ELIMINATION

Elimination : Incineration according to local legal regulations.

14. INFORMATION CONCERNING TRANSPORT

Transport : Not restricted according to transport regulations.

15. REGULATORY INFORMATION

Labelling according to EEC Directive: Not subject to compulsory marking.

National legislation / regulations:

German "Flammable Liquids" (VbF): Not applicable.

Water contaminating class : 1 (slightly hazardous to water).

TA Luft (Germany): Not applicable.

Other regulations: TSCA registered.

16. OTHER INFORMATION

Residual monomers : acrylamide < 0,02 % - acrylic acid < 0,06 %.