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#### 1. <u>IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND NAME OF THE COMPANY /</u> <u>UNDERTAKING</u>

- **1.1. Product identifier** TerraCottem<sup>®</sup> Universal
- **1.2.** Relevant identified uses of the substance or mixture and uses advised against Recommended use: soil conditioner

#### 1.3. Details of the supplier of the safety data sheet

TerraCottem BVTel. (32)56/78.27.58Brugstraat 14 AFax (32)56/78.27.598720 Oeselgeme-mail info@terracottem.beBelgiumWeb-site www.terracottem.com

Emergency number: (32)56/78.27.58

#### 2. HAZARD IDENTIFICATION

- **2.1. GHS-Classification as per UN-GHS** Not applicable.
- **2.2. Label elements as per UN-GHS** Not applicable.

#### 2.3. Other hazards

Spilled product in contact with water or moisture causes surfaces to become extremely slippery. Keep out of reach of children.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Mixture

Mixture with a base of volcanic pyroclastic rock, PAA/PAM superabsorbent polymers, partly coated NPK-fertilizer with magnesium and micronutrients, synthetic nitrogen fertiliser and root activators.

## 3.2. Hazardous ingredients as per UN-GHS

<b>Component</b> Potassium polyacrylate cross-linked	<b>CAS-n°</b> 25608-12-2	<b>Content</b> >= 39.5 %=<	Hazard class/hazard category Not applicable.
Ammonium nitrate (AN)	6484-52-2	< 5 %	Ox. Sol. 3, H272 Eye Irrit. 2 , H319

#### 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

4.1.1.	Skin contact:	Wash with water and soap.
4.1.2.	Eye contact:	Rinse with much water for a prolonged time.
4.1.3.	Inhalation:	Breathe fresh air.

4.1.4. Ingestion: If ill effects occur seek medical advice immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed





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None known.

**4.3.** Indication of any immediate medical attention and special treatment needed In case of swallowing: drink plenty of water.

#### 5. FIRE-FIGHTING MEASURES

- **5.1. Extinguishing media** Suitable extinguishing media: Water jet, carbon dioxide, foam, dry extinguishing agents.
- **5.2.** Special hazards arising from the substance or mixture In case of fire carbon monoxide, carbon dioxide.
- 5.3. Advice for firefighters

No special requirements.

#### 6. ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures** Spilled product in contact with water makes surfaces extremely slippery.

#### 6.2. Environmental precautions

Collect and flush small residuals with much water into the drain for subsequent biological waste effluent treatment.

**6.3. Methods and material for containment and cleaning up** Sweep up and shovel. Clean thoroughly. Repeat procedure if necessary.

#### 6.4. Reference to other sections

For personal protection see section 8.

#### 7. HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Safe handling advice:	Use respiratory protection when exceeding limit (see chapter		
	8) and dust is formed. Ensure sufficient workplace		
	ventilation.		
Advice on protection against	Take measures against electrostatic charge. The product		
fire and explosion:	itself is not explosive. However, fine dust may form explosive		
	mixtures in air. Avoid the production of dust.		

#### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage<br/>areas and containers:Store in a dry place.Average temperature for loose bulk storage over 3m³ must<br/>not exceed 50°C.

#### 7.3. Specific end use(s)

No specific end use required.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION





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# 8.1. Control parameters

Components or products of decomposition according to point 10, with limit values related to the place of work that require monitoring:			
Potassium polyacrilate, cross-linked 25608-12-2		MAK (DFG)	0.05 mg/m³
Alveolar fraction - Cat. 4.			
C – No risk of embryotoxic effects if TLV and BTV limits are complied with.			
8.2. Exposure controls			
Hygiene measures:	Obey reaso	pnable safety precautio	ns and practice good

Hygiene measures:	Obey reasonable safety precautions and practice good housekeeping.
Respiratory protection:	Use respiratory protection when exceeding limit (see chapter 8) and dust is formed. Ensure sufficient workplace ventilation.
Hand protection: Eye protection:	Does not apply. Use protective goggles.

# 9. PHYSICAL AND CHEMICAL CHARACTERISTICS

#### 9.1. Information on basic physical and chemical properties

	9.1.3. 9.1.4. 9.1.5. 9.1.6. 9.1.7. 9.1.8. 9.1.9. 9.1.10. 9.1.11. 9.1.12.	Form: Colour: Odour: Bulk density: Melting point: Boiling point: Flash point: Ignition temperature: Upper explosion limit: Vapour pressure at 20°C: Water solubility at 20°C: Dynamic viscosity at 20°C: pH at 1,0 g/l:	Mixture of granules and powders. White, brown, blue, beige and grey mixture. Odourless. +/- 800 kg/m <sup>3</sup> . Not applicable. Not applicable. Not applicable. Not determined. Not applicable. < 20 hPa. Partly soluble. Not applicable. ~7
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# 9.2. Other information

None.

# 10. STABILITY AND REACTIVITY

#### 10.1. Reactivity

See section 10.2.

#### 10.2. Chemical Stability

Stable under usual application conditions.

#### **10.3. Possibility of hazardous reactions** None known.

**10.4. Thermal decomposition** Decomposition above 200 °C.

# 10.5. Incompatible materials



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No known incompatibility with other materials.

**10.6. Hazardous decomposition products** None known.

### 11. TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

11.1.1.	Acute oral toxicity:	LD50 rat - Dose > 5000 mg/kg - Limit test.
11.1.2.	Acute dermal toxicity:	LD50 rat - Dose > 2000 mg/kg - Limit test.
11.1.3.	Skin irritation:	Rabbit - Method OECD n° 404 - Not irritating to the skin.
11.1.4.	Eye irritation:	Rabbit - Method OECD n° 405 – Very slight eye irritation.
11.1.5.	Sensitization:	Guinea pig - Method OECD n° 406 - No sensitization.
11.1.6.	Aspiration hazard:	Not applicable.
11.1.7.	Mutagenicity assessment:	Non mutagenic – Ames test –
		not mutagenic in in vivo and in vitro tests.
11.1.8.	Reprotoxicity/teratogenicity:	No evidence for hazardous properties.

## 12. ECOLOGICAL INFORMATION

#### 12.1. Toxicity

12.1.1. Ciliate toxicity:	Tetrahymena pyriformis	
12.1.2. Bacterial toxicity:	EC50 > 6000 mg/l - Exposure time 24 h. Ps. Putida	
12.1.3. Fish toxicity:	EC50 > 6000 mg/l - Exposure time 24 h - Method DEV L8. Leuciscus idus	
12.1.4. Fish toxicity:	LC50 > 5500 mg/l - Exposure time 96 h - Method OECD n° 203. Brachydanio rerio	
12.1.5. Toxicity in living organisms:	LC50 > 4000 mg/l - Exposure time 96 h - Method OECD n° 203. Eisenia foetida – Acute earthworm toxicity LC50 > 20000 mg/kg – Exposure time 14 days – Method OECD n° 207.	
<b>12.2. Persistence and degradability</b> Biodegradability:	Not rapidly degradable under aerobic conditions.	
<b>12.3. Bioaccumulative potential</b> Bioaccumulation:	Does not accumulate in living organisms.	
<b>12.4. Mobility in soil</b> Mobility:	No evidence for hazardous properties.	
<b>12.5. Results of PBT and vPvB assessm</b> PBT and vPvB assessment:	PBT: none – vPvB: none.	
<b>12.6. Other adverse effects</b> General information	None known.	
13. INFORMATION CONCERNING DISPOSAL		
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13.1. Waste treatment methods



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Product: Elimination: Uncleaned packaging: Disposal according to local legal regulations. Incineration according to local legal regulations. Undamaged packaging may be responsibly reused after proper cleaning.

## 14. INFORMATION CONCERNING TRANSPORT

#### 14.1. UN number

See section 14.2.

# 14.2. UN proper shipping name

Land transport:

Sea transport: Air transport:

- ADR / RID Not dangerous goods according to transportation regulations. IMPG - Not dangerous goods according to transportation regulations. ICAO / IATA - Not dangerous goods.
- **14.3. Transport hazard class** See section 14.2.
- **14.4. Packing group** See section 14.2.
- **14.5. Environmental hazards** See section 14.2.
- 14.6. Special precautions for user

See section 14.2.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** For transport approval see regulatory information.

## 15. REGULATORY INFORMATION

15.1. Safety, health and environmental r mixture. Labelling according to EE			
Danger symbol and designation:		ity according to the EC-Hazardous Materials	
R-phrases:	None.		
S-Phrases:	None.		
National legislation / regulations:			
Particular labelling of certain			
preparations:	None.		
Employment limitations:	None.		
Interference regulations:	None		
Technical Regulations Air:	None.		
Water pollution class:	WGK 1 - slightly water polluting preparation.		
Other regulations, limitations:	None.		
and prohibition regulations			
16. OTHER INFORMATION			
16.1. Relevant H-phrases			
For section 3.2	Ox. Sol. 3 Eye Irrit. 2 H272	Oxidising Solids, Category 3 Serious eye damage/eye irritation, Category 2 May intensify fire; oxidiser.	





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Causes serious eye irritation.

**16.2. Residual monomers** Residual monomers:

Acrylamide < 20 PPM - Acrylic acid < 250 PPM.

# 16.3. Further information

Data sheet writing department: Contact persons: TerraCottem bv Frank Dewever Davy Ottevaere

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