



# MATERIAL SAFETY DATA SHEET

## WONDER WATERWISE CRYSTALS

**Date Issued:** July 2019

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**Revision No.:** 3

**Print Date:** 1/7/19

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** WONDER WATERWISE CRYSTALS

**SUPPLIER:** EFEKTO

PO BOX 652147

BENMORE

2010

**TEL No.** 0861 333 586 Office Hours

**EMERGENCY TELEPHONE NUMBERS:**

**SPILLAGES:** 082 446 8946

**POISONINGS:**

**Poisons Information Help Line 0861 555 777** (all hours)

**Griffon Poison Centre** 082 446 8946

**Use:** A soil conditioner.

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### 2. HAZARDS IDENTIFICATION

- Spilled product in contact with water or moisture causes surfaces to become extremely slippery

**Symbol:** None

**Risk phrases:** None

**UN No.:** Not regulated

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Active ingredients:**

Active ingredients.	CAS No.:	EC No.:
Potassium polyacrylate, cross- linked	25608-12-2	
Acrylic acid < 600 ppm		

**Description:** Polymer.

**Chemical Name:** Potassium polyacrylate, cross- linked.

**Chemical Family:** Polymer.

**Chemical Formula:** -

**NIOSH/RTECS No.:** Not available.

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### 4. FIRST-AID MEASURES

**Eyes:** Rinse with much water for a prolonged time - if ill effects occur seek medical advice.  
**Skin:** Wash with water and soap. Take off contaminated clothing.  
**Ingestion:** If ill effects occur seek medical advice immediately.

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### 5. FIRE-FIGHTING MEASURES

**Specific hazards:** In case of fire carbon monoxide, nitrogen oxides  
**Special protective clothing:** None.  
**Environmental precautions:** Collect and flush small residuals with much water into the drain for subsequent biological waste effluent treatment.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Spilled product in contact with water or moisture causes surfaces to become extremely slippery.  
**Environmental precautions:** Collect and flush small residuals with much water into the drain for subsequent biological waste effluent treatment.

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### 7. HANDLING AND STORAGE

**Handling:** Use respiratory protection when exceeding limit (see chapter 8) and dust is formed. Ensure sufficient workplace ventilation.  
**Advice on protection against fire and explosion:** Avoid the production of dust. The product itself is not explosive, however, fine dust may form  
**Storage:**  
Keep containers tightly closed, in a well-ventilated place dry place. Store away from food, drink and animal feeding stuffs. Keep away from children.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits:** Respirable dust 0.05 mg/m<sup>3</sup>  
The European Disposables and Non-Wovens Association (EDANA) recommends a workplace limit of 0.05 mg/cbm for respirable dust of superabsorbent polymer (particle size under 10 microns), based on the NOEL (No Observed Effect Level) of the two-year inhalation study (see section 11).  
**Personal protection equipment**  
**Respiratory protection:** Use respiratory protection when exceeding limit (see chapter 8) and dust is formed. Ensure sufficient workplace ventilation.  
**Hand protection:** Does not apply  
**Eye protection:** Protective goggles  
**Hygiene measures:** Obey reasonable safety precautions and practice good housekeeping

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Powder.  
**Colour:** White.  
**Odour:** Odourless.



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Vapour pressure:	< 20 hPa at 20.0 °C
Density:	0,7 g/cm <sup>3</sup>
Bulk density:	~650 kg/m <sup>3</sup>
Water Retention:	1g ≤ 150 ml
pH:	~7.7 at 1.0 g/l
Water solubility:	Insoluble

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### 10. STABILITY AND REACTIVITY

Thermal decomposition: >200. °C

Stability: Stable under usual application conditions.

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### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity LD<sub>50</sub>: > 5000 mg/kg [Limit test].

Acute dermal toxicity LD<sub>50</sub>: > 2000 mg/kg [Limit test].

Skin irritation Rabbit: Not irritating to the skin.

Eye irritation Rabbit: Very slight irritation.

Skin Sensitization: No sensitization.

**Repeated dose toxicity:** A chronic (two-year) lifetime inhalation study on rats, carried out with micronised dust of a superabsorbent polymer (in order to produce fully respirable particles) resulted in an unspecified inflammatory reaction in the lungs which caused the formation of tumours in some animals receiving the highest chronically administered concentration (see monitoring of the workplace/ protective equipment in section 8). Without chronic inflammation tumours are not to be expected. The study produced a NOEL definition of 0.05 mg/cbm for micronized dust of superabsorbent polymer.

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### 12. ECOLOGICAL INFORMATION

#### Elimination information (persistence and degradability)

**Biodegradability:** Result: Not rapidly degradable under Aerobic conditions.

**Ciliate toxicity:** EC<sub>50</sub> Tetrahymena pyriformis > 6000 mg/l

Exposure time: 24, 00 h

**Bacterial toxicity:** EC<sub>50</sub> Ps. Putida > 6000 mg/l

Exposure time: 24.00 h Method: DEVL 8

**Fish toxicity:** LC<sub>50</sub> Leuciscus idus >5500 mg/l

Exposure time: 96.00 h Method: OECD Nr. 203

LC<sub>50</sub> Brachydanio rerio >4000 mg/l

Exposure time: 96.00h Method : OECD Nr. 203

#### Environmental Fate:

Polyacrylate absorbents are relatively inert in aerobic and anaerobic conditions. They are immobile in landfills and soil systems (>90% retention), with the mobile fraction showing biodegradability.

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### 13. DISPOSAL CONSIDERATIONS



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**Product:** Dispose of whilst observing local legal regulations. E.g. in a suitable incineration plant.

**Contaminated packaging:** Undamaged packaging may be responsibly reused after proper cleaning

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### 14. TRANSPORT INFORMATION

**UN No.:** Not regulated.

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### 15. REGULATORY INFORMATION

**Labelling according to EEC Directive**

**Symbol:** None

**Risk phrases:**

**R22** Harmful if swallowed

**Safety phrases:**

**S1/2** Keep locked up and out of reach of Children.

**National legislation:** In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act. No. 85 of 1993)

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### 16. OTHER INFORMATION

**Compiled by:** Danie Fourie

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

### REFERENCES

- Stockosorb 660 Micro MSDS STOCKHAUSEN GmbH & Co. KG, Krefeld, Germany
- 05/06/2007
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

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**END OF MSDS.**