

Desert WASHROOM CLEANER

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Version 7 Date: 2007-06-01

1. IDENTIFICATION OF THE SUBSTANCE/PRODUCT AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the Substance or Preparation: DESERT WASHROOM CLEANER****1.2 Intended use of the Substance/Preparation:**

Aqueous liquid formulation of non pathogenic bacterial cultures containing specialized strains used for degrading organic matters responsible for odours and blockages in pipes and on bathroom surfaces.

1.3 Company/Undertaking Identification:

Desert Ecosystems Pty Ltd
326a Payneham Road
PAYNEHAM. SA 5070
Tel: +618 8132 0460
Fax: +618 8219 0087
info@desert.com.au

1.4 Emergency Telephone Number:

+618 8132 0460 (workhours)

2. HAZARDS IDENTIFICATION**2.1 Health Hazard (inhalation, ingestion, contact with skin or eyes):**

Most Important Hazards: The preparation is not classified according to the criteria laid down in EU Council Directives 67/548/EC (Annex VI of Directive 2001/59/EC) and 1999/45/EEC:

2.2 Environmental Hazard: High water solubility. Not classified as dangerous for environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical/trade name	Quantity %	Symbols	R phrase	CAS No.	EINECS, ELINCS
Ethoxylated alcohol	< 10	Xn	R22, R41	68439-45-2	N/A
2-Butoxyethanol	< 20	Xn	R20/21/22, R37	111-76-2	N/A
Alkylarylsulfonic acid	<20	Xn	R22, R34	27176-87-0	N/A

4. FIRST-AID MEASURES

- 4.1 Exposure by Inhalation:** Remove victim to fresh air, in a quiet place, in an half laying position. Seek medical attention if symptoms occur.
- 4.2 Exposure by skin:** Immediately wash affected area thoroughly with water and soap. Take medical advice if irritation appears. Organisms used are non pathogenic but can cause infection when in contact with open wounds.
- 4.3 Exposure by eyes contact:** Immediately flush eyes with plenty of water (during 20 minutes minimum) and seek medical attention if irritation develops.
- 4.4 Exposure by Ingestion:** Rinse mouth, do not drink anything, keep quiet. Seek medical attention.
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5. FIRE FIGHTING MEASURES

- 5.1 Suitable Extinguishing Media:** In case of fire in the surroundings : water, sand, foam, dry chemical or carbon dioxide extinguishers may be used.
- 5.2 Extinguishing Media not to be used:**
None
- 5.3 Specific Exposure Hazards:** If the substance is involved in a fire, oxides of carbon and nitrogen may be evolved.
- 5.4 Protective Equipment for Firefighters:**
Full protective clothing and self-contained breathing apparatus should be worn.
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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions:** Evacuate personnel from immediate vicinity. Wear appropriate protective clothing (goggles, gloves, and a vapour mask). Refer to section 8.
- 6.2 Environmental Precautions:** Avoid excessive release to drains and natural water. This product and its container must be disposed in a safe way.
- 6.3 Methods for Cleaning Up:** Stop the leak or release at source. Transfer the spillage to waste containers labelled in the same way as the original containers. Clean the spillage area with water and detergent.
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7. HANDLING AND STORAGE

7.1 Handling:

Precautions: The substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure.

Technical Measures: The use of gloves will reduce exposure to the preparation.

Specific Requirements: None.

7.2 Storage:

Specific design for storage rooms or vessels:	None
Incompatible Materials:	Keep away from: strong acids or alkali compounds may inactivate biological cultures. Avoid strong oxidising agents. Do not store in non protected metal containers.
Conditions of Storage:	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Avoid freezing temperatures. Avoid temperatures above 45 °C to preserve biological stability.
Quantity Limits:	None
Packaging Materials:	Packaging can be recycled

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limits

VME 8h dusts =10 mg/m³ (particles of a diameter < 100µ) and 5 mg/m³ (particle of a diameter < 5µ)

8.2 Professional exposure control

Personal Protective Equipment:	The provision of personal protective equipment and the need to provide engineering control measures should be decided upon by the user as part of a formal exposure risk assessment. Based upon the available toxicological information the protective measures described below should be regarded as a minimum.
Respiratory Protection:	No special ventilation is usually necessary. However if operating conditions create high airborne concentrations of this material, based upon available information and in the absence of occupational exposure limits the use of a vapour mask to a minimum standard of EN405 FFA1P1 is recommended.
Hand Protection:	Prolonged or frequent repeated skin contact especially with broken skin. PVC or Latex protective gloves to a Standard EN374 should be provided.
Eye Protection:	Safety glasses with protect from splashes recommended, to prevent eye exposure, should be used when handling the preparation. The protection should be capable of giving chemical protection as classified in BS2092 or EN166.
Skin Protection:	Avoid contact with broken skin. However in case of prolonged/frequent direct handling of the material it is recommended to wear protective clothing (type 6) as classified by Standard NF EN 13034.
Engineering Measures:	Engineering controls such as LEV are recommended to reduce exposure to the preparation
Specific Control Parameters:	None



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	liquid
Colour:	white
Odour:	peppermint/lemon
pH:	7.0-9.0
Boiling Point/Boiling Range:	100°C
Melting Point/Melting Range:	Not applicable
Flash Point:	Not determined
Flammability (Solid, Gas):	Not applicable
Autoflammability:	Not determined
Explosive Properties:	Predicted not explosive based on chemical structure.
Oxidising Properties:	Not determined
Vapour Pressure:	Not applicable
Relative Density:	approx 1 @ 25 °C
Solubility	- Water solubility: soluble - Fat solubility: Not determined
Partition coefficient n-octanol/water:	Not determined
Other Data:	None

10. STABILITY AND REACTIVITY

10.1 Conditions to Avoid:	Excessive temperature variations, below 0°C or above 45 °C
10.2 Materials to Avoid:	Strong acids or alkali compounds may inactivate biological cultures and strong oxidising agents.
10.3 Hazardous Decomposition Products:	None anticipated

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxic effects

11.1.1 Ingestion, LD50 Rat oral (mg/kg):	Not determined
11.1.2 Inhalation, LC50 Rat inhalation (mg/l/4h):	Not determined
11.1.3 Skin, LD50 Rat dermal (mg/kg) :	Not determined

11.2 Local effects

11.2.2 Skin irritation	Not determined
11.2.2 Eye irritation	Not determined



Contact with eyes may cause irritation. Prolonged or repeated contact with skin may cause dermatitis. The product is formulated using a range of micro-organisms specially selected from the natural environment and that are known to be non-pathogenic to humans, animals or plants. It is advised to cover open wounds when in use.

12. ECOLOGICAL INFORMATION

- 12.1 Mobility:** This preparation has high water solubility and low vapour pressure. Therefore it is likely to distribute predominantly to the aqueous environment.
- 12.2 Biodegradability:** The preparation is expected to biodegrade rapidly. However no information on anaerobic biodegradation is available.
- 12.3 Accumulation:** Not anticipated to bioaccumulate due to high water solubility and hence, biomagnification is not likely.
- 12.4 Ecotoxicity:** The preparation is not anticipated to pose any environmental hazard. No data on toxicity specifically to soil organisms, plants and terrestrial animals are available.
- 12.5 Other adverse effects:** There is no ozone depletion, photochemical ozone creation or global warming potential. Adverse effects in the sewage treatment plant are not anticipated.
- 12.6 Other information:** Class 1 micro-organisms (European Federation of Biotechnology) selected from the natural environment.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste from Residues:** Collect all waste in suitable and labelled containers and dispose according to local legislation.
- 13.2 Contaminated Packaging:** Dispose of by incineration or landfill in accordance with local regulations. Empty packaging can be recycled or reused.

14. TRANSPORT INFORMATION

- No special requirements
- International Regulations
- Land: Not applicable.
Inland waterways: Not applicable.
Sea: Not applicable.
Air: Not applicable.
- UN classification number: None
- Local Regulations: Any relevant local regulations concerning transport should be observed.

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15. REGULATORY INFORMATION

EC Regulations: The preparation is NOT classified as "dangerous" according to the criteria laid down in EU Council Directives 67/548/EC (Annex VI of Directive 2001/59/EC) and 1999/45/EEC.

Classification proposal

Symbols: None
 R-phrases: None
 S-phrases: S2 Keep out of reach of children
 S 20/21 Do not eat, drink or smoke when using
 S 35 The product and its container must be disposed in a safe way
 S 49 Keep only in its original container

Microbial classification

The preparation is not deemed 'hazardous' according to the requirements of Council Directive 2000/54/EEC. All bacteria contained in this preparation are designated Class 1 according to Council Directive 90/679/EEC (as amended by Council Directive 93/88/EEC) and all other recognized classification systems for micro-organisms.

Labeling according to Regulation (EC) n° 648/2004 (Detergent): to be declared

COMPONENT	FUNCTION	QUANTITY (%)
anionic agent	Surfactant	<5
non ionic agent	Surfactant	<5
Benzisothiazolinone	Preservative	< 5
EDTA	Preservative	< 5
Perfume Cinnamal ⁺ , citronellol*, eugenol ⁺ geraniol* limonene ⁺ linalool ⁺ citral*	Perfume	⁺ C > 0.01% [*] 0.001% < C < 0.01% ⁺ C > 0.01% [*] 0.001% < C < 0.01% ⁺ C > 0.01% [*] 0.001% < C < 0.01%

Local Regulations: Any relevant local regulations should be observed.

16. OTHER INFORMATION

R phrases

- R 20 Harmful by inhalation
- R 21 Harmful by skin contact
- R 22 Harmful by ingestion
- R 34 May cause burns
- R 37 Irritating to the respiratory tract

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Miscellaneous

Regulation (EC) n° 648/2004 (Detergent)

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

LEV: Local Exhaust Ventilation

The information contained is based on our knowledge of the product at the date of publishing. It applies to the product as such. In case of formulation or mixture make sure no new danger appear. Users are advised of possible additional danger when the product is used in applications for which it is not intended to. The user must satisfy himself that the product is entirely suitable.

Version 3 : Revised points: 1-3 – 2007-06-01
