

# MATERIAL SAFETY DATA SHEET

DESERT WATERLESS MICROBIAL URINAL CUBES **Product Name** 

#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name DESERT ECO SYSTEMS PTY LTD** 

**Address** 326A Payneham Road, Payneham, SA, AUSTRALIA, 5070

(08) 8132 0460 **Telephone** Fax (08) 8132 1338 **Emergency** 0428 337 378

Synonym(s) DESERT WATERLESS MICROBIAL URINAL CUBES

Use(s) SCALE REMOVER • TOILET CLEANER • URINAL CLEANER

**MSDS Date** 12 Feb 2009

#### 2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC CRITERIA

#### NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No. None Allocated **DG Class** None Allocated Subsidiary Risk(s) None Allocated **EPG Packing Group** None Allocated **Hazchem Code** None Allocated None Allocated

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
SODIUM DODECYLBENZENE SULPHONATE	C18-H29-O3-S.Na	25155-30-0	<20%
D-LIMONENE	C10-H16	5989-27-5	0.01-0.1%
CITRAL	C10-H16-O	5392-40-5	0.0010-0.01%
ANIONIC SURFACTANT(S)	Not Available	Not Available	15-30%
PERFUME	Not Available	Not Available	1-5%
CITRONELLOL	C10-H20-O	106-22-9	0.0010-0.01%
DYE	Not Available	Not Available	Not Available
MICRO-ORGANISMS	Not Available	Not Available	Not Available
ADDITIVE(S)	Not Available	Not Available	remainder

## 4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to

stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue Skin

flushing with water until advised to stop by the Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed,

do not induce vomiting. Seek medical attention if irritation develops.

**Advice to Doctor** Treat symptomatically

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#### 5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve carbon oxides when heated to decomposition.

**Fire and**Treat as per requirements for Surrounding Fires: Evacuate area and contact emergency services. Remain upwind **Explosion**and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing

Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Extinguishing** Prevent contamination of drains or waterways.

Hazchem Code None Allocated

#### 6. ACCIDENTAL RELEASE MEASURES

**Spillage** If spilt, collect and reuse where possible.

#### 7. STORAGE AND HANDLING

Storage Store in cool, dry, well ventilated area, removed from strong acids, alkalis, oxidising agents, foodstuffs, heat and

ignition sources. Ensure containers are adequately labelled, protected from physical damage and sealed when not

in use.

**Handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin

contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating,

drinking and smoking in contaminated areas.

#### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Exposure Stds** No exposure standard(s) allocated.

Biological Limits No Biological Limit Value allocated.

Engineering Controls

Avoid inhalation. Use in well ventilated areas.

**PPE** Wear PVC or rubber gloves.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

**BLUE COLOURED WAXY SOLID** SOLUBLE **Appearance** Solubility (Water) NOT AVAILABLE Odour **ORANGE ODOUR Specific Gravity** % Volatiles рΗ 8 (1% solution) NOT AVAILABLE **NOT AVAILABLE** Flammability NON FLAMMABLE Vapour Pressure **NOT AVAILABLE Flash Point** NOT RELEVANT Vapour Density **Boiling Point** > 100°C **NOT RELEVANT Upper Explosion Limit Melting Point** 60°C **Lower Explosion Limit NOT RELEVANT** 

Evaporation Rate NOT AVAILABLE

# 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under recommended conditions of storage. The preparation is not anticipated to pose any

environmental hazard. No data on toxicity specifically to soil organisms, plants and terrestrial animals are

available.

**Conditions to Avoid** Avoid heat, sparks, open flames and other ignition sources.

Material to Avoid Incompatible with oxidising agents (eg. hypochlorites, peroxides), alkalis (eg. hydroxides) and acids (eg.

hydrochloric acid).

**Hazardous** May evolve carbon oxides when heated to decomposition.

**Decomposition Products** 

**Hazardous Reactions** Polymerization is not expected to occur.

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#### 11. TOXICOLOGICAL INFORMATION

Health Hazard Summary

Low toxicity - low irritant. This product contains live microorganisms, which are only anticipated to present a hazard with direct eye contact, prolonged skin contact or contact with broken skin. No chronic effects are

anticipated with normal use.

Eye Irritant. Over exposure may result in lacrimation, pain, redness, blurred vision and conjunctivitis.

**Inhalation** Low irritant. Over exposure may result in irritation of the nose and throat, with coughing.

Skin Irritant. Contact may result in irritation, redness, rash and dermatitis. Contact with broken skin increases the risk of

infection.

Ingestion Low toxicity. Ingestion may result in gastrointestinal irritation, nausea and vomiting. However, due to product form

ingestion is considered unlikely. The manufacturer reports that the oral LD50 (rat) is > 5000 mg/kg.

Toxicity Data SODIUM DODECYLBENZENE SULPHONATE (25155-30-0)

LD50 (Ingestion): 438 mg/kg (rat) LD50 (Intravenous): 105 mg/kg (mouse)

D-LIMONENE (5989-27-5)

LD50 (Ingestion): 4400 mg/kg (rat) LD50 (Intraperitoneal): 600 mg/kg (mouse) LD50 (Intravenous): 110 mg/kg (rat)

LD50 (Skin): > 5 gm/kg (rabbit) LD50 (Subcutaneous): 3170 mg/kg (mouse) LDLo (Subcutaneous): 30200 mg/kg (rat)

TDLo (Ingestion): 67 g/kg/39 weeks intermittently (mouse)

CITRAL (5392-40-5)

LD50 (Ingestion): 4960 mg/kg (rat) LD50 (Intraperitoneal): 460 mg/kg (rat)

CITRONELLOL (106-22-9)

LD50 (Ingestion): 3450 mg/kg (rat)

LD50 (Intramuscular): 4000 mg/kg (mouse)

LD50 (Skin): 2650 mg/kg (rabbit)

LD50 (Subcutaneous): 880 mg/kg (mouse)

#### 12. ECOLOGICAL INFORMATION

**Environment** This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in

small quantities. Not expected to bioaccumulate.

Persistence / Degradability

The preparation is expected to biodegrade rapidly. However no information on anaerobic biodegradation is

available.

Mobility This preparation has high water solubility. Therefore it is likely to distribute predominantly to the aqueous

environment.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Reuse where possible. No special precautions are required for this product.

**Legislation** Dispose of in accordance with relevant local legislation.

#### 14. TRANSPORT INFORMATION

#### NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name None Allocated

UN No.None AllocatedDG ClassNone AllocatedSubsidiary Risk(s)None AllocatedPacking GroupNone AllocatedHazchem CodeNone AllocatedEPGNone Allocated

## 15. REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform

Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

# 16. OTHER INFORMATION

Additional ABBREVIATIONS: Information ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

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CHEM ALERT

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CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European INventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m3 - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

#### **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### **Report Status**

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

#### Prepared By

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> MSDS Date: 12 Feb 2009 End of Report