

MATERIAL SAFETY DATA SHEET

Product Name **DESERT WASHROOM CLEANER**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name DESERT ECO SYSTEMS PTY LTD
Address 30 Marlborough Street, Adelaide SA 5000
Telephone (08) 8132 0460
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Emergency 0428 337 378
Synonym(s) DESERT WASHROOM CLEANER

Use(s) SCALE REMOVER • TOILET CLEANER • URINAL CLEANER
MSDS Date 16 Feb 2012

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
Packing Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
D-LIMONENE	C10-H16	5989-27-5	>0.01%
ETHYLENE GLYCOL MONOBUTYL ETHER	C6-H14-O2	111-76-2	<20%
CITRAL	C10-H16-O	5392-40-5	0.0010-0.01%
CINNAMAL	Not Available	Not Available	>0.01%
EUGENOL	C10-H12-O2	97-53-0	>0.01%
LINALOOL	Not Available	Not Available	>0.01%
DODECYLBENZENE SULPHONIC ACID	C18-H30-O3-S	27176-87-0	<20%
ETHOXYLATED ALCOHOL C6-12	Not Available	68439-45-2	<10%
PRESERVATIVE	Not Available	Not Available	<5%
CITRONELLOL	C10-H20-O	106-22-9	0.0010-0.01%
GERANIOL	Not Available	Not Available	0.0010-0.01%
MICRO-ORGANISMS	Not Available	Not Available	Not Available
WATER	H2O	7732-18-5	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.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue 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.
Advice to Doctor	Treat symptomatically

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases if strongly heated.
Fire and Explosion	Treat as per requirements for Surrounding Fires: Evacuate area and contact emergency services. Remain upwind 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 (bulk), use personal protective equipment. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Prevent spill entering drains or waterways. CAUTION: Spill site may be slippery.
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7. STORAGE AND HANDLING

Storage	Store in cool, dry, well ventilated area, out of direct sunlight and out of the reach of children, removed from oxidising agents, alkalis, acids and foodstuffs. 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	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	2-Butoxyethanol (EGBE)	ASCC (AUS)	20	96.9	50	242

Biological Limits	No biological limit allocated.
Engineering Controls	Avoid inhalation. Use in well ventilated areas.
PPE	Wear splash-proof goggles, PVC or rubber gloves and safety glasses. When using large quantities or where heavy contamination is likely, wear: coveralls.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	WHITE COLOURED LIQUID	Solubility (Water)	SOLUBLE
Odour	PEPPERMINT/LEMON ODOUR	Specific Gravity	1
pH	7 to 9	% Volatiles	NOT AVAILABLE

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Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	100°C	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended conditions of storage.
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 Decomposition Products	May evolve toxic gases if heated to decomposition.
Hazardous Reactions	Polymerization will not occur.

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 of large quantities may result in nausea, vomiting and gastrointestinal irritation. The manufacturer reports that the oral LD50 (rat) is > 20000 mg/kg.
Toxicity Data	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) ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2) LC50 (Inhalation): 700 ppm (mouse) LD50 (Ingestion): 300 mg/kg (rabbit) LD50 (Skin): 230 mg/kg (guinea pig) TCLo (Inhalation): 100 ppm (human) TDLo (Ingestion): 7813 uL/kg (woman) CITRAL (5392-40-5) LD50 (Ingestion): 4960 mg/kg (rat) LD50 (Intraperitoneal): 460 mg/kg (rat) EUGENOL (97-53-0) Carcinogenicity: Not classifiable as to its carcinogenicity (IARC Group 3) LD50 (Ingestion): 3 g/kg (mouse) LD50 (Intraperitoneal): 500 mg/kg (mouse) LD50 (Intravenous): 72 mg/kg (mouse) LDLo (Intraperitoneal): 800 mg/kg (rat) LDLo (Subcutaneous): 5 g/kg (rat) DODECYLBENZENE SULPHONIC ACID (27176-87-0) LD50 (Ingestion): 650 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.
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.
Persistence / Degradability	The preparation is expected to biodegrade rapidly. However no information on anaerobic biodegradation is available.
Mobility	This preparation has high water solubility and low vapour pressure. Therefore it is likely to distribute predominantly to the aqueous environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	For small amounts, absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information. Ensure that appropriate personal protective equipment is used during disposal.
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 Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	None Allocated	EPG	None 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 Information	<p>ABBREVIATIONS: ADB - Air-Dry Basis. BEI - Biological Exposure Indice(s) 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.</p> <p>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.</p> <p>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.</p>
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').

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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.

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End of Report