

GREEN



DAVID GRAY & CO. PTY LIMITED
2 Rawlinson Street O'CONNOR WA 6163
PO BOX 2084 PALMYRA DC WA 6961
Ph: (08) 9337 4933 Fax: (08) 9337 8316
email: general@davidgray.com.au web: www.davidgray.com.au

MATERIAL SAFETY DATA SHEET

Product Name **DAVID GRAYS SCRAM PERSONAL INSECT REPELLANT LOTION TROPICAL STRENGTH**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name DAVID GRAY & CO PTY LIMITED
Address 2 Rawlinson Street, O'Connor, WA, AUSTRALIA, 6961
Telephone (08) 9337 4933
Fax (08) 9337 8316
Emergency (08) 9337 4933 (B/H)
Email general@davidgray.com.au
Web Site <http://www.davidgray.com.au/>
Synonym(s) 01903 (12X125ML) - MANUFACTURER'S CODE • 46386 (24X50ML) - MANUFACTURER'S CODE
Use(s) INSECT REPELLENT • INSECTICIDE
MSDS Date 21 Jun 2010

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

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
DIETHYL TOLUAMIDE (DEET)	C12-H-17-N-0	134-62-3	19.1%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	>60%
DIPROPYL ISOCINCHOMERONATE	C13-H17-N-O4	136-45-8	4%
N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	C17-H25-N-O2	113-48-4	2%

4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

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

Skin Exposure is considered unlikely. However, sensitive individuals may develop allergic skin reactions. Gently flush affected areas with water and discontinue use.

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.

Product Name **DAVID GRAYS SCRAM PERSONAL INSECT REPELLANT LOTION TROPICAL STRENGTH**

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases if strongly heated. May also evolve nitrogen oxides when heated to decomposition.
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. Absorb spill with rags or similar and dispose of to land fill. Small spills can be wiped clean with a damp cloth or rag.
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7. STORAGE AND HANDLING

Storage	No special requirements for the storage of this product.
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 allocated.
Engineering Controls	No special precautions are normally required when handling this product.
PPE	Personal Protective Equipment is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	VISCOUS WHITE EMULSION	Solubility (Water)	DISPERSIBLE
Odour	FRAGRANT ODOUR	Specific Gravity	0.96 - 0.99
pH	NOT AVAILABLE	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	NOT AVAILABLE	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE		
Appearance	VISCOUS WHITE EMULSION	Odour	FRAGRANT ODOUR

10. STABILITY AND REACTIVITY

Material to Avoid	Compatible with most commonly used materials.
Hazardous Decomposition Products	May also evolve nitrogen oxides when heated to decomposition.

Product Name **DAVID GRAYS SCRAM PERSONAL INSECT REPELLANT LOTION
TROPICAL STRENGTH**

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low toxicity when used in low concentrations - eye irritant. Under normal conditions of use, adverse health effects are not anticipated. Individuals with sensitive skin may experience some irritation. Diethyl toluamide has been shown in experimental animal studies to cause reproductive and mutagenic effects following skin contact when undiluted and at high dosage rates. No adverse health effects are expected when the product is used in accordance with label directions.
Eye	Irritant. Contact may result in irritation, lacrimation, pain and redness.
Inhalation	Exposure considered unlikely. Due to product form and nature of use, an inhalation hazard is not anticipated with normal use.
Skin	Non - low irritant. Prolonged or repeated contact may result in mild irritation. Some individuals may experience allergic reaction.
Ingestion	Non toxic. Ingestion is considered an unlikely exposure route. Ingestion may result in nausea, vomiting and diarrhoea.
Toxicity Data	DIETHYL TOLUAMIDE (DEET) (134-62-3) LC50 (Inhalation): 5950 mg/m ³ (rat) LD50 (Ingestion): 1170 mg/kg (mouse) LD50 (Skin): 3170 uL/kg (mouse) LDLo (Ingestion): 679 mg/kg (man) LDLo (Intravenous): 75 mg/kg (rabbit) TDLo (Ingestion): 0.3 mg/kg (women) TDLo (Skin): 35 mg/kg/5 days (human) DIPROPYL ISOCINCHOMERONATE (136-45-8) LD50 (Ingestion): 1600 mg/kg (mouse) LD50 (Intraperitoneal): 330 mg/kg (mouse) LD50 (Skin): 9400 mg/kg (rat) N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE (113-48-4) LD50 (Ingestion): 2800 mg/kg (rat) LD50 (Skin): 470 mg/kg (rat, rabbit) TDLo (Ingestion): 346 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Environment	Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	No special precautions are required for the disposal of 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 Allocated	DG Class	None Allocated	Subsidiary Risk(s) None Allocated
Packing Group	None Allocated	Hazchem Code	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	DIETHYL TOLUAMIDE (DEET): The acute oral LD50 in the rat is approximately 2 mL of 15% diethyltoluamide per kilogram of body weight. Ingestion of 25 mL of 50% DEET by a one-year-old child resulted in severe toxicity. Ingestion of 50 mL of 100% DEET by adolescents or adults has resulted in severe toxicity, and death. Dermal
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Product Name**DAVID GRAYS SCRAM PERSONAL INSECT REPELLANT LOTION
TROPICAL STRENGTH**

application of DEET has resulted in encephalopathy (brain dysfunction) in children after extensive daily applications of 10 to 15% solutions for 2 days to 3 months. Encephalopathy has been reported after ingestion or excessive dermal application. Signs and symptoms include restlessness, drowsiness, irritability, weakness, ataxia, tremors, confusion, agitation, slurred speech, headaches, athetosis (muscle spasms), and in severe cases coma. Neurologic symptoms may develop within 30 minutes of ingestion. Generalised tonic clonic seizures may develop after excessive dermal use or ingestion. Rarely have seizures occurred without warning. Extreme condition of use: Acute manic psychosis with paranoid and grandiose delusions, pressured speech, and flight of ideas developed in a man (30yrs) after 2 weeks of daily application of a 70% DEET preparation to treat a skin rash. The DEET was applied to half the man's body followed by 60-90 minutes in a sauna, and repeated for the other side of his body. Symptoms resolved after 5 days of treatment with haloperidol and cessation of exposure. Anaphylaxis (allergic hypersensitivity reaction) has been reported after skin application.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

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.

EC No - European Community Number.

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.

COLOUR RATING SYSTEM: RMT has assigned all Chem Alert reports a colour rating of Green, Amber or Red for the sole purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline, a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

While all due care has been taken by RMT in the preparation of the Colour Rating System, it is intended as a guide only and RMT does not provide any warranty in relation to the accuracy of the Colour Rating System. As far as is lawfully possible, RMT accepts no liability or responsibility whatsoever for the actions or omissions of any person in reliance on the Colour Rating System.

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').

GREEN

Product Name **DAVID GRAYS SCRAM PERSONAL INSECT REPELLANT LOTION
TROPICAL STRENGTH**

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 Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

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End of Report