



PRODUCT SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

Commercial Product Name **Aerogard Tropical Strength Insect Repellent Aerosol**

Recommended / Intended Use: Personal Insect Repellent

Supplier:

AUSTRALIA
Reckitt Benckiser (Australia) Pty Limited
44 Wharf Road, West Ryde NSW 2114
TEL: (02) 9857 2000

NEW ZEALAND
Reckitt Benckiser (New Zealand) Limited
Lincoln Manor
289 Lincoln Road
Henderson, Auckland 1231
TEL: (09) 839 0200

Emergency Telephone Number: After Hours (5 pm to 8 am EST Australia): (02) 9857 2444

POISONS CENTRE INFORMATION Australia - 13 1126
New Zealand - 0800 764 766 or 0800 POISON

2. HAZARDS IDENTIFICATION

**HAZARDOUS SUBSTANCE ACCORDING TO CRITERIA OF NOHSC AUSTRALIA
DANGEROUS GOOD ACCORDING TO ADG CODE**

R -phrase(s)

R12 - Extremely flammable
R36 - Irritating to eye

2. HAZARDS IDENTIFICATION

Risk Combination Phrases R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S -phrase(s) S 2 - Keep out of the reach of children
S16 - Keep away from sources of ignition - No smoking
S23 - Do not breathe spray
S25 - Avoid contact with eyes

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Proportion (% w/w)
Ethanol	64-17-5	30 - 60 %
n-butane	106-97-8	15 - 30 %
N,N-diethyl-3-methylbenzamide	134-62-3	15 - 30 %
Isopropyl myristate	110-27-0	5 - 10 %
N-octyl bicycloheptene dicarboximide	113-48-4	1 - 5 %
Propane	74-98-6	1 - 5 %

The other ingredients to 100%w/w are classified as not hazardous according to NOHSC (Australia)

Our supplier of butane has provided documentation stating that the butane component contains less than 0.1%w/w 1,3 butadiene.

4. FIRST AID MEASURES

General Advice Show the container and / or this safety data sheet to the doctor in attendance.

Skin Contact Wash off with soap and water. If skin irritation persists, call a physician

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Inhalation Move to fresh air. If breathing difficulties are experienced, contact a doctor.

Ingestion Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting. Call a doctor or Poisons Control Centre.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point: See chapter 9

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Foam.

Specific Hazards Arising from the Chemical: Extremely flammable
May be ignited by heat, sparks or flames
Keep product and empty container away from heat and sources of ignition.

Precautions for fire-fighting Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Emergency and Evacuation Procedures:	Ensure adequate ventilation. Contain and signpost spill. Depending on spill size, collect spill according to instructions below.
Personal Precautions:	Avoid contact with skin, eyes and clothing Use personal protective equipment. Remove all sources of ignition.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains or natural waterways.
Methods for Cleaning up:	Mop up spill and wash area with detergent and water.
Methods for Containment:	Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

Handling:	Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans.
Precautions for Safe Handling:	Keep away from heat and sources of ignition.
Storage:	Keep containers tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: Exposure Standards have been set for the following ingredients:

Chemical Name	Australian Workplace Exposure Standards	New Zealand Workplace Exposure Standards
Ethanol 64-17-5	TWA: 1000 ppm TWA: 1880 mg/m ³	TWA: 1000 ppm TWA: 1880 mg/m ³
n-butane 106-97-8	TWA: 1900 mg/m ³ TWA: 800 ppm	TWA: 1900 mg/m ³ TWA: 800 ppm

TWA - The Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health or, not cause undue discomfort to, nearly all workers.

STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health or, not cause undue discomfort to, nearly all workers

Biological Limit Values	No biological limit values allocated.
Engineering Controls:	Ensure adequate ventilation, especially in confined areas.
Personal Protection	
Eye Protection:	Safety glasses.
Hand Protection:	Impervious butyl rubber gloves
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Aerosol.
Appearance:	Fine, mist
Odour:	Floral.
pH	No information available
Vapour Pressure:	240 kPa @16°C (Butane)
Vapour Density	2.046 (air =1) (butane gas)
Boiling Point/Range:	0°C / 32°F
Specific Gravity / Density [g/L]:	0.0085 - 0.0087 at 25°C
Flash Point:	-60°C(Butane) / -76°F

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid:	Pressurised container. Protect from the sunlight and do not expose to temperatures exceeding 50° C (120° F). Extremes of temperature can occur in cars and near ovens and fireplaces. Do not place in contact with hot surfaces or near naked flames. Do not pierce or burn even after use. Do not spray on a naked flame, onto or near fire, or any incandescent material such as an electric fire.
Hazardous Decomposition Products:	Oxides of carbon and unknown organic compounds.
Polymerization:	No information available.

11. TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY DATA

LD₅₀ Oral: No information available

LD₅₀ Dermal: No information available

LC₅₀ Inhalation (Dust): No information available

LC₅₀ Inhalation (Vapor): No information available

Acute Effects:

Eye Irritation Irritating to eyes.

Skin Irritation May cause skin irritation.

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion May cause irritation to the upper gastrointestinal tract.

Sensitization Not expected to be a skin sensitiser.

Chronic Effects: No information available.

Specific Effects

Carcinogenic Effects: Not listed as carcinogenic by OSHA, NTP or IARC.

Mutagenic Effects No information available.

Reproductive Toxicity: No information available.

Additional Toxicity Information: Information given is based on data on the components and the toxicology of similar products.

COMPONENT TOXICITY DATA

Chemical Name	CAS#	LD50 Oral - With Units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 Inhalation - With units - Rat/Rabbit
Ethanol	64-17-5	7060 mg/kg (Rat)		
n-butane	106-97-8			658 mg/L (Rat) 4 h
N,N-diethyl-3-methylbenzamide	134-62-3	1892 mg/kg (Rat)	5 g/kg (Rat) 3180 µL/kg (Rabbit)	
Isopropyl myristate	110-27-0	10000 mg/kg (Rat)	5000 mg/kg (Rabbit)	41 mg (Rat)
N-octyl bicycloheptene dicarboximide	113-48-4	2800 mg/kg (Rat)	470 mg/kg (Rat)	
Propane	74-98-6			658 mg/L (Rat) 4 h

12. ECOLOGICAL INFORMATION

Ecotoxicity:

The ecotoxicity of this product has not been determined. However, the following component information is available.

COMPONENT ECOTOXICITY DATA

The following component ecotoxicity data was considered to determine the overall ecotoxicity of this product.

Ethanol - 64-17-5

Freshwater Fish

LC50 = 14.2 mg/L *Pimephales promelas* 96 h

Ethanol - 64-17-5

Microtox EC50 = 35470 mg/L 5 min
Water Flea EC50 = 9268 mg/L 48 h

N-octyl bicycloheptene dicarboximide - 113-48-4

Fish Rainbow Trout LC50 (96 h) 1.4mg/L
Daphnia LC50 (48 h) 2.3 mg/l.
Bird LC50 (8 d) for mallard ducks and bobwhite quail >5620 mg/kg diet.
Fish (Other) LC50 (96 h) bluegill sunfish 2.4 mg/L.
Data Source Pesticide Manual 14 edition

SUMMARY OF PRODUCT ECOTOXICITY DATA

Ecotoxicity: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Biodegradability and Persistence: No information available.
Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Bulk quantities of product must be disposed of according to Local, State and Federal regulations.
Special Precautions for Landfill or Incineration: Not suitable for incineration.
Contaminated Packaging: DO NOT PUNCTURE OR INCINERATE!
 Wrap in newspaper and place in trash.
 For bulk quantities dispose of in accordance with local, regional or national requirements. For further information contact your local waste authority.
Further information: Packaging and container to be recycled only if emptied completely!

14. TRANSPORT INFORMATION

IATA

UN-No:	UN 1950
Proper shipping name:	Aerosols, Flammable
Hazard Class	2.1
Subsidiary Class	None Allocated
ERG Code	10L

IMDG/IMO

Proper Shipping Name	Aerosols
Hazard Class	2
UN-No	UN 1950
Packing Group	None Allocated
EmS:	F-D, S-U
Special Provisions	63, 190, 277
Marine Pollutant	Not a marine pollutant

ADG (Australian Road and Rail)

Proper Shipping Name	Aerosols
Hazard Class	2.1
Packing Group	None Allocated
UN-No	UN 1950
Australia Hazchem Code	None Allocated

15. REGULATORY INFORMATION

Hazard Statements	HAZARDOUS SUBSTANCE ACCORDING TO CRITERIA OF NOHSC AUSTRALIA
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Labelling

IRRITANT
KEEP OUT OF REACH OF CHILDREN.

R -phrase(s)	R12 - Extremely flammable R36 - Irritating to eyes
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Risk Combination Phrases	R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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Poisons Schedule No. (SUSDP) Australia:	Not scheduled
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Regulatory Approvals: This product has been registered by the Australian Pesticides and Veterinary Medicines Authority (APVMA) Australia

Regulatory Approval Numbers: APVMA No 60098

NZ Toxic Substances (HSNO): This product has been approved under HSNO covered by Cosmetics Group Standard 2006 HSR002552.

AICS Additional Comment Not all the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS). The ingredients not listed on AICS are exempt as they are included by Australian Pesticides and Veterinary Medicines Authority (APVMA) legislation.

16. OTHER INFORMATION

Key: ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS = Australian Inventory of Chemical Substances
EC50 = median effective concentration
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
LC50 = concentration required to kill 50% of test organisms.
LD50 = dose required to kill 50% of test organisms.
NOHSC = National Occupational Health and Safety Commission (Australia)

Reason for revision: Remove of product code.

Validation/Revision Date 04-Apr-2014

This MSDS has been prepared according to the National Code of Practice for the Preparation of Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].

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End of Safety Data Sheet