



## 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

**Customer Product Codes:**

0050478	100g
0050480	150g
0050479	250g
0220270	300g

**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 eyes

## 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

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

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans.
<b>Precautions for Safe Handling:</b>	Keep away from heat and sources of ignition.
<b>Storage:</b>	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 <sup>3</sup>	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>
n-butane 106-97-8	TWA: 1900 mg/m <sup>3</sup> TWA: 800 ppm	TWA: 1900 mg/m <sup>3</sup> 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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	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.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon and unknown organic compounds.
<b>Polymerization:</b>	No information available.

## 11. TOXICOLOGICAL INFORMATION

### PRODUCT TOXICITY DATA

**LD<sub>50</sub> Oral:** No information available

**LD<sub>50</sub> Dermal:** No information available

**LC<sub>50</sub> Inhalation (Dust):** No information available

**LC<sub>50</sub> 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*

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

*N-octyl bicycloheptene dicarboximide - 113-48-4*

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

**SUMMARY OF PRODUCT ECOTOXICITY DATA**

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

**13. DISPOSAL CONSIDERATIONS**

<b>Disposal Methods and Containers:</b>	Bulk quantities of product must be disposed of according to Local, State and Federal regulations.
<b>Special Precautions for Landfill or Incineration:</b>	Not suitable for incineration.
<b>Contaminated Packaging:</b>	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.
<b>Further information:</b>	Packaging and container to be recycled only if emptied completely!

<b>14. TRANSPORT INFORMATION</b>
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**IATA**

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

**IMDG/IMO**

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

**ADG (Australian Road and Rail)**

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

<b>15. REGULATORY INFORMATION</b>
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<b>Hazard Statements</b>	HAZARDOUS SUBSTANCE ACCORDING TO CRITERIA OF NOHSC AUSTRALIA
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**Labelling**

IRRITANT  
KEEP OUT OF REACH OF CHILDREN.

<b>R -phrase(s)</b>	R12 - Extremely flammable R36 - Irritating to eyes
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<b>Risk Combination Phrases</b>	R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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<b>S -phrase(s)</b>	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
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<b>Poisons Schedule No. (SUSDP) Australia:</b>	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:** Addition of product code.

**Validation/Revision Date** 07-May-2009

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**