

RID Tropical Roll-On

RID (RID (Australia))

Chemwatch: **36-6831** Version No: **9.1.1.1**

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 1

Issue Date: **30/05/2017** Print Date: **31/05/2017** S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	RID Tropical Roll-On		
Synonyms	401100 Tropical Roll-On 100ml APN 9311037421005, 401100HK Tropical Roll-On 100ml HK APN 9311037421005, 410100 Tropical Roll-On 100ml APN 9311037421005, 410100 Tropical Roll-On 100ml APN 9311037421005, 410060 Tropical Roll-On 60ml		
Other means of identification Not Available			

Relevant identified uses of the substance or mixture and uses advised against

Polyvant identified uses	Use according to manufacturer's directions.
Relevant identified uses	Personal insecticide lotion applied to skin.

Details of the supplier of the safety data sheet

Registered company name	RID (RID (Australia))		
Address	79 Denham Street Townsville QLD 4810 Australia		
Telephone	1 7 4772 1411		
Fax	+61 7 4721 3892		
Website			
Email			

Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+61 7 4772 1411
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	0		0 = Minimum
Body Contact	1		1 = Low 2 = Moderate
Reactivity	0		3 = High
Chronic	0		4 = Extreme

Poisons Schedule	Not Applicable
Classification	Not Applicable

Label elements

Hazard pictogram(s) Not Applicable	
SIGNAL WORD NOT APPLICABLE	

Hazard statement(s)

Not Applicable

Supplementary statement(s)

Chemwatch: **36-6831**Version No: **9.1.1.1**

Page **2** of **7**

RID Tropical Roll-On

Issue Date: **30/05/2017**Print Date: **31/05/2017**

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name N,N-diethyl-m-toluamide	
134-62-3	19		
balance Ingredients determined not to be hazardous		Ingredients determined not to be hazardous	

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: ► Wash out immediately with water. ► If irritation continues, seek medical attention. ► Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	 Intended for application to skin. Remove with soap and water if irritation occurs. Seek medical advice if irritation persists. 	
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 	
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. 	

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.				
Advice for firefighters	Advice for firefighters				
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. 				
 ▶ Non combustible. ▶ Not considered a significant fire risk, however containers may burn. May emit poisonous furnes. 					
HAZCHEM	Not Applicable				

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

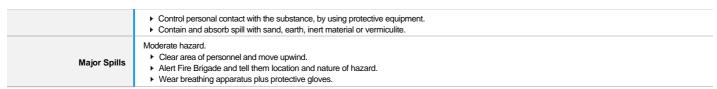
See section 12

Methods and material for containment and cleaning up

Minor Spills

- ► Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.

Issue Date: 30/05/2017
Print Date: 31/05/2017



Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- ▶ Prevent concentration in hollows and sumps.
- Other information
- Store in original containers.Keep containers securely sealed.
- Reep containers securely sealed.
- ► Store in a cool, dry, well-ventilated area.
- ▶ Store away from incompatible materials and foodstuff containers.

Conditions for safe storage, including any incompatibilities

Suitable container

- ▶ Polyethylene or polypropylene container.
- ▶ Packing as recommended by manufacturer.
- ► Check all containers are clearly labelled and free from leaks.

Storage incompatibility

▶ Avoid reaction with oxidising agents



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X — Must not be stored together

May be stored together with specific preventions

May be stored together

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
RID Tropical Roll-On	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
N,N-diethyl-m-toluamide	Not Available		Not Available	

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal protection









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Eye and face protection

- ► Safety glasses with side shields
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience.

Skin protection

See Hand protection below

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The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application

Hands/feet protection

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final

Personal hygiene is a key element of effective hand care.

Version No: 9.1.1.1

RID Tropical Roll-On

Issue Date: **30/05/2017**Print Date: **31/05/2017**

	 ▶ Wear chemical protective gloves, e.g. PVC. ▶ Wear safety footwear or safety gumboots, e.g. Rubber
Body protection	See Other protection below
Other protection	 ▶ Overalls. ▶ P.V.C. apron. ▶ Barrier cream.
Thermal hazards	Not Available

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the $\ computer-$ generated selection:

RID Tropical Roll-On

Material	СРІ
BUTYL	С
NATURAL RUBBER	С
NEOPRENE	С
PVA	С
VITON	С

^{*} CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White fragrant non-greasy cosmetic based lotion/liquid; miscible with water (200 g/l)		
Physical state	Liquid	Relative density (Water = 1)	0.98
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	6.4-6.7	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	85-100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	80-90
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

^{*} Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Issue Date: 30/05/2017 Print Date: 31/05/2017

Hazardous decomposition products

See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Application of Deet to the skin produces no primary skin irritation or sensitisation in humans. In rabbits, redness and peeling of the skin have been observed as well as intoxication, excitation, stiffness and loss of co-ordination. Harm to the foetus has been reported following application of large doses. Open cuts, abraded or irritated skin should not be exposed to this material		
Eye	The liquid may produce eye discomfort causing smarting, pain and redness.		
Chronic	Based on experience with similar materials, there is a possibility that exposure to the material may reduce fertility in humans at levels which do not cause other toxic effects. Exposure to DEET is usually by inhaling mists or vapours, or through skin contact/absorption. Repeated exposure to DEET can cause slight irritation and dryness of the face, sloughing around the nose and a tingling sensation. Some individuals have shown nervous system symptoms (muscle cramp, urinary hesitation, difficulty sleeping, abnormal sweating, irritability, depression, paranoia, confusion and aggressive behaviour) and brain disease. Allergy and scarring skin inflammation have been reported; in one case, a 5-year-old girl died, likely as a result of sensitisation to DEET.		
	TOXICITY	IRRITATION	
RID Tropical Roll-On	Not Available	Not Available	
	тохісіту	IRRITATION	
	dermal (rat) LD50: 5000 mg/kg ^[2]	Eye (rabbit) : 10 mg - moderate	
N,N-diethyl-m-toluamide	Oral (rat) LD50: 1800 mg/kg ^[2]	Eye (rabbit): 100 mg	
		Skin (rabbit): 500 mg - moderate	
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
RID Tropical Roll-On	No significant acute toxicological data identified in literature search.		
N,N-DIETHYL- M-TOLUAMIDE	For N,N-diethyl-m-toluamide (Deet) Acute toxicity: Different preparations of Deet with different proportions of the range showed lacrimation, chromodacryorrhea, depression, prostration, tremo failure. In rabbits, an intravenous dosage of 75 mg/kg was rapidly fatal, but 50 mg/kg w The material may produce moderate eye irritation leading to inflammation. Rep The material may cause skin irritation after prolonged or repeated exposure an scaling and thickening of the skin. Reproductive effector in rats	rs, and asphyxial convulsions. Respiratory failure usually preceded cardiac ras not. leated or prolonged exposure to irritants may produce conjunctivitis.	

Aspiration Hazard Legend:

Carcinogenicity

Reproductivity

STOT - Single Exposure

STOT - Repeated Exposure

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X − Data available but does not fill the criteria for classification
 ✓ − Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Acute Toxicity

Serious Eye

sensitisation

Mutagenicity

Damage/Irritation Respiratory or Skin

Skin Irritation/Corrosion

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Toxicity

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
RID Tropical Roll-On	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	20.983mg/L	3
N,N-diethyl-m-toluamide	EC50	48	Crustacea	75mg/L	4
	EC50	96	Algae or other aquatic plants	55.919mg/L	3

RID Tropical Roll-On

Issue Date: **30/05/2017**Print Date: **31/05/2017**

EC50 384 Crustacea 5.064mg/L 3

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Environmental Fate:

Soil: N,N-diethly-m-toluamide (DEET), an active ingredient in insect repellant, is found to be moderately mobile in soil and is stable to hydrolysis at soil pH level typically found in the environment. Studies show that DEET can be biodegraded by soil microorganism e.g. P. putida.

Water: DEET, practically insoluble in water, was detected in water as a result of urban wastewater contamination to stream-flow.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
N,N-diethyl-m-toluamide	HIGH	HIGH

Bioaccumulative potential

Ingredient	Bioaccumulation
N,N-diethyl-m-toluamide	LOW (BCF = 2.4)

Mobility in soil

Ingredient	Mobility
N,N-diethyl-m-toluamide	LOW (KOC = 536.6)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ► Reduction
- ▶ Reuse
- ▶ Recycling
- ► Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

Product / Packaging

DO NOT allow wash water from cleaning or process equipment to enter drains.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
 It may be necessary to collect all wash water for treatment before disposal.
 - In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
 - Where in doubt contact the responsible authority.
 - ▶ Recycle wherever possible
 - Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility
 can be identified.
 - Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
 - ▶ Decontaminate empty containers

SECTION 14 TRANSPORT INFORMATION

disposal

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

N,N-DIETHYL-M-TOLUAMIDE(134-62-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists		Australia Inventory of Chemical Substances (AICS)
National Inventory	Status	
Australia - AICS	Υ	
Canada - DSL	Υ	
Canada - NDSL	N (N,N-diethyl-m-toluamide)	

 Chemwatch: 36-6831
 Page 7 of 7
 Issue Date: 30/05/2017

 Version No: 9.1.1.1
 Print Date: 31/05/2017

RID Tropical Roll-On

China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Y	
Japan - ENCS	Υ	
Korea - KECI	Υ	
New Zealand - NZIoC	Υ	
Philippines - PICCS	Υ	
USA - TSCA	Υ	
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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