

RID Medicated Roll-On and Lotion RID Australia

Chemwatch: **36-6826** Version No: **11.1.1.1** Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2

Issue Date: 01/11/2019 Print Date: 25/08/2020 S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Product name	RID Medicated Roll-On and Lotion
Synonyms	201050 Medicated Roll On 50ml APN 9311037120502; 201050KH Medicated Roll On 50ml HK APN 9311037120502; 201125 Medicated Lotion 125ml APN 93206495; 201375 Medicated Lotion 375ml APN 9311037375131; 210050 Medicated Roll On 50ml APN 9311037120502; 210100 Medicated Lotion 100ml APN 9311037500021; 210500 Medicated Lotion 500ml APN 9311037500052
Other means of identification	Not Available

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

Relevant identified uses	Medicated before and after bite lotion and personal insecticide applied to the skin. Use according to manufacturer's directions.
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Details of the supplier of the safety data sheet

Registered company name	RID Australia
Address	30 Bernoulli Street Darra QLD 4076 Australia
Telephone	1300 041 772
Fax	1300 360 440
Website	www.rid.com.au
Email	Not Available

Emergency telephone number

Association / Organisation	RID Australia
Emergency telephone numbers	+61 7 47721411
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

Classification of the substance or mixture

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

ChemWatch Hazard Ratings

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

Poisons Schedule	Not Applicable
Classification ^[1]	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)



Signal word	Warning	
Hazard statement(s)		
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
Precautionary statement(s) Pre	evention	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
Precautionary statement(s) Re	sponse	
P321	Specific treatment (see advice on this label).	
P362	Take off contaminated clothing and wash before reuse.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	

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
134-62-3	10-30	N.N-diethyl-m-toluamide
Not Available	balance	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 the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider:

- foam.
- dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

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. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Horard	 The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke.
Fire/Explosion Hazard	Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.
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

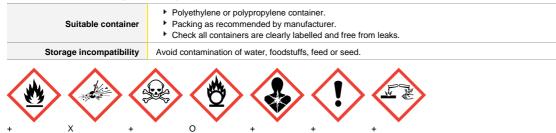
Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	 DO NOT allow clothing wet with material to stay in contact with skin 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. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities



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 Medicated Roll-On and Lotion	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
N,N-diethyl-m-toluamide	Not Available		Not Available	

Occupational Exposure Banding

Cocupational Exposure Banding		
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
N,N-diethyl-m-toluamide	E	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning chemicals into s adverse health outcomes associated with exposure. The output of this pro range of exposure concentrations that are expected to protect worker hea	cess is an occupational exposure band (OEB), which corresponds to a

Exposure controls

	Engineering controls are used to remove a hazard or place a be highly effective in protecting workers and will typically be in The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev General exhaust is adequate under normal operating condition overexposure exists, wear approved respirator. Correct fit is or closed storage areas. Air contaminants generated in the w velocities" of fresh circulating air required to effectively removing the output of the storage areas.	ndependent of worker interactions to provide this high level ty or process is done to reduce the risk. selected hazard "physically" away from the worker and ven o can remove or dilute an air contaminant if designed proper emical or contaminant in use. vent employee overexposure. Dons. Local exhaust ventilation may be required in specific cir essential to obtain adequate protection. Provide adequate v rorkplace possess varying "escape" velocities which, in turn,	of protection. tilation that strategically ly. The design of a cumstances. If risk of entilation in warehouse
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (i	n still air).	0.25-0.5 m/s (50-100 f/min)
Appropriate engineering	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)		0.5-1 m/s (100-200 f/min.)
controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)		1-2.5 m/s (200-500 f/min.)
	5 5, 5 5, 5 5, 5 5, 5 1		2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
	Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simpl accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min) for extraction of solvents generated i producing performance deficits within the extraction apparatu more when extraction systems are installed or used.	le cases). Therefore the air speed at the extraction point sho ng source. The air velocity at the extraction fan, for example n a tank 2 meters distant from the extraction point. Other me	ould be adjusted, should be a minimum of echanical considerations,

Personal protection	
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. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear steely footware or safety gumbons, e.g. Rubber 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. 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 choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: trequency and duration of contact, chemical resistance of glove material. glove thickness and deve thickness and deventity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When only brief contact is expected, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to B 734, AS/NZS 2161.1.0.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. As defined in ASTM F.739-96 in any application, gloves are rated as: Excellent when breakthrough time + 20 min Good when breakthrough time + 20 min Fair when breakthrough t
	moisturiser is recommended.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.

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 Medicated Roll-On and Lotion

Material	CPI
BUTYL	A
NEOPRENE	A
VITON	A
NATURAL RUBBER	С
PVA	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

Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1 P2	-
up to 50	1000	-	A-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	A-2 P2
up to 100	10000	-	A-3 P2
100+			Airline**

selection must be based on detailed observation. -

* 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.

* - Continuous Flow ** - Continuous-flow or positive pressure demand 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)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance White fragrant non-greasy liquid; mixes 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 Applicable	Gas group	Not Available
Solubility in water	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
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological ef	fects	
Inhaled	Not normally a hazard due to non-volatile nature of pr	oduct
Ingestion	Accidental ingestion of the material may be damaging	to the health of the individual.
Skin Contact	This material can cause inflammation of the skin on c The material may accentuate any pre-existing dermat Open cuts, abraded or irritated skin should not be exp Entry into the blood-stream, through, for example, cut prior to the use of the material and ensure that any ex	tis condition osed to this material s, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin
Eye	This material can cause eye irritation and damage in some persons.	
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.	
RID Medicated Roll-On and Lotion	τοχιζιτγ	IRRITATION

	Not Available	Not Available
	τογιατχ	
		IRRITATION Eye (rabbit) : 10 mg - moderate
	4750 mg/kg ^[2]	Eye (rabbit): 10 mg
N,N-diethyl-m-toluamide	950 mg/kg ^[2]	Skin (rabbit): 500 mg - moderate
	Dermal (rabbit) LD50: 3180 mg/kg ^[2]	
	dermal (rat) LD50: 5000 mg/kg ^[2]	
	Inhalation (rat) LC50: 5.95 mg/l ^[2]	
	Oral (rat) LD50: 1800 mg/kg ^[2]	
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute to: specified data extracted from RTECS - Register of Toxic Effect of chemic 	
N,N-DIETHYL-M-TOLUAMIDE	appeared normal. No sensitisation was seen in guinea pigs . Animals topically exposed to Deet have developed dermal and ocular ret in rabbits and profuse sweating, irritation and exfoliation in horses have to of 50 percent or greater. Direct ocular application of either diluted (30 or tearing, conjunctivitis, pus and clouding in the eyes. Repeated dermal application to horses produced hypersteatosis, an over higher. Dermal application in humans of insect repellents containing Deet can pr irritation, large painful blisters and permanent scarring of skin at the creat 50 or 75 percent Deet. Results from questionnaire surveys conducted by among Everglades National Park Employees indicated a variety of derms and numb or burning sensations of the lips among park workers who wer resulting from topical Deet exposure has been noted in both children and urticaria was accompanied by an anaphylactic reaction . Controlled human exposure studies using 50 or 75 percent Deet have re Army conducted an investigation in volunteers using 75 percent Deet app (48%) had severe dermal reactions at the crease of the elbow. No derma men tested with ethanol solvent alone. Several cases of toxic encephalopathy associated with the use of Deet in case involved a 3.5 year old girl whose body, bedclothes and bedding we 15 percent Deet. Since then, five additional cases of toxic encephalopatt children, all of whom were females. The toxic encephalopathy was chard and in three cases resulted in death. Autopsies conducted on two fataliti- lesions in the cerebellum and spinal cord and an enlarged liver accompa- heterozygous for ornithine carbamoyl transferase deficiency (a sex linked above) and it has been hypothesised that children with this enzyme disou- ficiency which usually causes infant death in males is of variable seve- products has produced neurotoxic effects similar to those described follo Generalised seizures have also been temporally associated with the use subsoe described above in that they involved males (four bys aged 3-7 y and re	ostration, tremors, and asphyxial convulsions. Respiratory failure usually ang/kg was not. Five doses at the rate of 25 mg/kg/day produced no hjection. Single dermal applications to rabbits at rates of 2 or 4 m/kg. Repeated dermal applications to rabbits produced mild to moderate correal injury, as revealed by fluorescein staining. After 5 days, all eyes actions. Dermal effects including erythema, desquamation and scarring open reported following repeated applications of Deet to concentrations 40 percent Deet) or undituded Deet in rabbits has produced edema, ractivity of the selacious glands, when the solution of Deet was 15% or roduce a variety of skin reactions in humans. Cases of localized skin set of the Bow have been reported in soldiers who applied solutions of the National Institute for Occupational Safety and Heatth (NIOSH) al reactions including rashes, irritation of skin and nuccus membranes, the highly exposed to Deet-containing repeated applications or the National Institute for Occupational Safety and Heatth (NIOSH) al reactions were observed on the upper arm or in the control group of the dermal effects noted in field studies. The U.S. plied to the upper arm and elbow's crease. Of the 77 volunteers, 37 al reactions were observed on the upper arm or in the control group of the selficiency which may produce d flex similar to those reported in soldier who ase reported to be determed the therain with the use of Deet products in acterised by agitation, weakness, disorientation, ataxia, seizures, coma es indicated oedema of the brain, with one case presenting necrotic mied by microscopic changes. One child was reported to be determine the torin applications of Deet-containing myed the dermal applications of Deet containing myed there are adults. These cases differ from ears and one 29-year-old adult), had few associated without a secontred to the ane adults. The self adults who repeatedly applied Deet to has showed that the rates. Deet than are adults. They application of Deet in adults dustubances youn

	400 mg/kg/day, respectively. Researchers fed mice 250, 500, or 1,000 mg/kg/day for 18 target organ toxicity or oncogenicity was observed in any of the animals. Researchers o screen chemicals for carcinogenicity. Sufficient evidence indicates that DEET does not Fate in Humans and Animals : Deet is absorbed promptly from the skin and distributed compound is excreted in the milk but primarily in the urine. The material may produce moderate eye irritation leading to inflammation. Repeated or conjunctivitis.	often use studio at have significa ed to all organs	idies designed to test for mutagenicit cant potential for mutagenicity ns including the brain and the foetus	city to
	The material may cause skin irritation after prolonged or repeated exposure and may presicles, scaling and thickening of the skin. Reproductive effector in rats	produce on cor	ontact skin redness, swelling, the pro	roduction of
Acute Toxicity	vesicles, scaling and thickening of the skin.		ontact skin redness, swelling, the pr	roduction of
Acute Toxicity Skin Irritation/Corrosion	vesicles, scaling and thickening of the skin. Reproductive effector in rats	nicity 🗙	ontact skin redness, swelling, the pr	roduction of
	vesicles, scaling and thickening of the skin. Reproductive effector in rats Carcinogeni	nicity X tivity X	ontact skin redness, swelling, the pr	roduction of
Skin Irritation/Corrosion	vesicles, scaling and thickening of the skin. Reproductive effector in rats Carcinogeni Reproduction	nicity X tivity X osure X	ontact skin redness, swelling, the pr	roduction of

SECTION 12 Ecological information

Toxicity Test Duration (hr) Endpoint Species Value Source **RID Medicated Roll-On and** Not Not Not Lotion Not Available Not Available Available Available Available Endpoint Test Duration (hr) Species Value Source N,N-diethyl-m-toluamide Not Not Not Not Available Not Available Available Available Available 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

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			
Mobility in soil Ingredient	Mobility		

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 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. Observe all label safeguards until containers are cleaned and destroyed.

 SECTION 14 Transport information

 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 is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 5 Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

National Inventory	Status		
Australia - AIIC	Yes		
Australia Non-Industrial Use	No (N,N-diethyl-m-toluamide)		
Canada - DSL	Yes		
Canada - NDSL	No (N,N-diethyl-m-toluamide)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - ARIPS	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)		

SECTION 16 Other information

Revision Date	01/11/2019
Initial Date	23/08/2013

SDS Version Summary

Version	Issue Date	Sections Updated
10.1.1.1	12/09/2019	Acute Health (eye), Acute Health (inhaled), Acute Health (skin), Acute Health (swallowed), Appearance, Chronic Health, Classification, Disposal, Engineering Control, Environmental, Fire Fighter (extinguishing media), Fire Fighter (fire/explosion hazard), First Aid (eye), First Aid (skin), First Aid (swallowed), Handling Procedure, Personal Protection (Respirator), Personal Protection (eye), Physical Properties, Storage (storage incompatibility), Toxicity and Irritation (Other)
11.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

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_\circ 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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