

Rid Insect Repellant Sunscreen Combo SPF50+ Lotion RID Australia

Chemwatch: 60-7602 Version No: 4.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 0

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 Insect Repellant Sunscreen Combo SPF50+ Lotion
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses	Sunscreen with insect repellent action.
	SDS are intended for use in the workplace. For domestic-use products, refer to consumer labels.

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

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	0		1 = Low
Reactivity	0		2 = Moderate
Chronic	0		3 = High 4 = Extreme

Poisons Schedule	Not Applicable
Classification ^[1]	Not Applicable

Label elements

Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable

Hazard statement(s)

Not Applicable

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
Not Available		insect repellant:
8003-34-7	<1	pyrethrum
134-62-3	1-10	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 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	Not considered an irritant through normal use. Wipe off excess with absorbent tissue or towel. Seek medical attention if swelling/redness/blistering or irritation occurs.
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

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

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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 Herord	► Non combustible.	

Not considered a significant fire risk, however containers may burn.

SECTION 6 Accidental release measures

HAZCHEM

Fire/Explosion Hazard

Personal precautions, protective equipment and emergency procedures See section 8

Not Applicable

Methods and material for containment and cleaning up

Minor Spills	 Slippery when spilt. 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	Slippery when spilt. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment. Prevent spillage from entering drains, sewers or water courses. Recover product wherever possible. Put residues in labelled containers for disposal. 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 None required when handling small quantities. OTHERWISE: Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Safe handling When handling DO NOT eat, drink or smoke. Always wash hands with soap and water after handling. Avoid physical damage to containers. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Other information 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

Suitable container	 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

X — Must not be stored together

0 — 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

Source	Ingredient	Material name		TWA	STI	EL	Peak		Notes
Australia Exposure Standards	Standards pyrethrum Pyrethrum			5 mg/m3	5 mg/m3 Not Available		Not Available		Not Available
Emergency Limits									
Ingredient	Material name		TEEL-1			TEEL-2		TEEL-3	
Rid Insect Repellant Sunscreen Combo SPF50+ Lotion	Not Available		Not Available		Not Available		Not Available		
Ingredient	Original IDLH Revised IDLH								
pyrethrum	5,000 mg/m3			Not Available					
N,N-diethyl-m-toluamide	Not Available			Not Available					
Occupational Exposure Banding									
Ingredient	Occupational Expo	sure Band Rating	9			Occupational Exp	osure Band Lin	nit	
N,N-diethyl-m-toluamide	E	E			≤ 0.1 ppm				

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit			
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.				
Exposure controls					
	None required when handling small quantities. OTHERWISE: Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protect 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 th "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The diventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Core essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants gei workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to remove the contaminant. Type of Contaminant: Air Str				
			0.25-0.5 m/s		
	solvent, vapours, degreasing etc., evaporating from tank (i	n still air)	(50-100 f/min)		
Appropriate engineering	aerosols, fumes from pouring operations, intermittent contr drift, plating acid fumes, pickling (released at low velocity in	ainer filling, low speed conveyer transfers, welding, spray nto zone of active generation)	0.5-1 m/s (100-200 f/min.)		
controls	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)			
	grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	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	and of the range		
	1: Room air currents minimal or favourable to capture	: Disturbing room air currents			
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity	inants 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 away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.				
Personal protection					
Eye and face protection	 No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: Safety glasses with side shields. 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	No special equipment needed when handling small quantitie OTHERWISE: Wear general protective gloves, e.g. light weight	s. jht rubber gloves.			
Body protection	See Other protection below				
Other protection	No special equipment needed when handling small quantitie OTHERWISE: • Overalls. • Barrier cream. • Eyewash unit.	5.			

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 smooth glossy liquid; mixes with water.				
Physical state	2	Relative density (Water = 1)	Not Available		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	6.0-7.0	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	Not Available	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)	Not Available		
Vapour pressure (kPa)	Not Available	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 effects

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.			
Ingestion	Considered an unlikely route of entry in commercial/industrial environments Ingestion may result in nausea, abdominal irritation, pain and vomiting			
Skin Contact	Not considered an irritant through normal use. Open cuts, abraded or irritated skin should not be exposed to this material			
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	Principal routes of exposure are by accidental skin and eye contact and by inhalation of vapours especially at higher temperatures. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.			
Rid Insect Repellant	TOXICITY	IRRITATION		
Lotion	Not Available	Not Available		
	TOXICITY	IRRITATION		
pyrethrum	Dermal (rabbit) LD50: 300 mg/kg ^[2]	Not Available		
pyrounum	dermal (rat) LD50: 1350 mg/kg ^[2]			

Oral (rat) LD50: 200 mg/kg^[2]

	ΤΟΧΙΟΙΤΥ	IRRITATION
	35 mg/kg ^[2]	Eye (rabbit) : 10 mg - moderate
	4750 mg/kg ^[2]	Eye (rabbit): 100 mg
	950 mg/kg ^[2]	Skin (rabbit): 500 mg - moderate
N,N-diethyl-m-toluamide	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]	
l egend:	 1. Value obtained from Europe ECHA Registered Substances - Acute t	oxicity 2 * Value obtained from manufacturer's SDS_Unless otherwise
	specified data extracted from RTECS - Register of Toxic Effect of chem	nical Substances
PYRETHRUM	No significant acute toxicological data identified in literature search. Pyrethrins have low to moderate acute toxicity when swallowed, inhaled They have a moderate irritant effect on the eye and skin (but do not ser The toxic effects of pyrethrin include tremors, laboured breathing, hype that pyrethrins can cause tremors and convulsions before death and the In testing involving animals, pyrethrins have been found to cause repro is not enough information to assess whether pyrethrins cause cancer in disturbance of thyroid function. Pyrethroids are thought to have similar effects to pyrethrins. ADI: 0.04 mg/kg/day	d and on skin contact. nsitise the skin). ractivity, thyroid disturbances, and liver effects. Animal testing has found at pyrethrins are toxic to the axon. ductive toxicity at sufficient doses, as well as benign liver tumours. There n humans. There is evidence that pyrethrins are associated with
N,N-DIETHYL-M-TOLUAMIDE	For N,N-diethyl-m-toluamide (Deet) Acute toxicity: Different preparations of Deet with different proportions the LD50 range showed lacrimation, chromodacryorrhea, depression, p preceded cardiac failure. In rabbits, an intravenous dosage of 75 mg/kg was rapidly fatal, but 50 cumulative effect, except for injury of the intima of some veins used for produced no systemic effect, but did produce mild to moderate erythem of 2 ml/kg/day produced no evidence of systemic toxicity but did produc species. Except for some scarring, these lesions cleared within 3 week edema of the nictitating membrane, lacrimation, conjunctivitis, and som appeared normal. No sensitisation was seen in guinea pigs . Animals topically exposed to Deet have developed dermal and ocular n in rabbits and profuse sweating, irritation and exfoliation in horses have of 50 percent or greater. Direct ocular application of either diluted (30 o tearing, conjunctivitis, pus and clouding in the eyes. Repeated dermal application to horses produced hypersteatosis, an ov higher. Dermal application in humans of insect repellents containing Deet can pl irritation, large painful blisters and permanent scarring of skin at the cre 50 or 75 percent Deet. Results from questionnaire surveys conducted to among Everglades National Park Employees indicated a variety of derr and num or burning sensations of the lips among park workers who w resulting from topical Deet exposure has been noted in both children ar urticaria was accompanied by an anaphylactic reaction . Controlled human exposure studies using 50 or 75 percent Deet a (48%) had severe dermal reactions at the crease of the elbow. No derr men tested with ethanol solvent alone. Several cases of toxic encephalopathy associated with the use of Deet case involved a 3.5 year old gif whose body, bedclothes and bedding y 15 percent Deet. Since then, five additional cases of toxic encephalopathy was cha and in three cases resulted in death. Autopsies conducted on two fatail lesions in the cerebellum and spinal cord and a	s of the m-isomer produced different oral LD50s. Rats killed by dosages in prostration, tremors, and asphyxial convulsions. Respiratory failure usually mg/kg was not. Five doses at the rate of 25 mg/kg/day produced no injection. Single dermal applications to rabbits at rates of 2 or 4 ml/kg a. Repeated dermal application of 50% solutions for 13 weeks at the rate or desquamation, coriaceousness, dryness, and fissuring in the same s. Instillation of Deet into the eyes of rabbits produced mild to moderate tee corneal injury, as revealed by fluorescein staining. After 5 days, all eyes eactions. Dermal effects including erythema, desquamation and scarring be been reported following repeated applications of Deet at concentrations r 40 percent Deet) or undiluted Deet in rabbits has produced edema, eractivity of the selacious glands, when the solution of Deet was 15% or produce a variety of skin reactions in humans. Cases of localized skin asses of the elbow have been reported in soldiers who applied solutions of oy the National Institute for Occupational Safety and Health (NIOSH) mal reactions including rashes, irritation of skin and mucous membranes, ere highly exposed to Deet-containing preplents. Uticaria or dermatitis, and adults. In one instance involving only limited Deet exposure, the "eproduced many of the dermal effects noted in field studies. The U.S. pplied to the upper arm and elbow's crease. Of the 77 volunteers, 37 nal reactions were observed on the upper arm or in the control group of in children have been reported in where the polent tontaining thy have been temporally associated with the use of Deet products in aracterised by agitation, weakness, disorientation, ataxia, seizures, coma ties indicated oedema of the brain, with one case presenting necrotic anied by microscopic changes. One child was reported to be ed enzyme deficiency which may produce effects similar to those reported order may be at greater risk of adverse reactions to Deet. This enzyme reity in females. Accidental and deliberate inges

	Essentially identical results were found in other subacute dermal and feeding studies each a studies, 2,000 ppm proved to be a no-effect-level. Oral administration of Deet to dogs at rat hyperactivity and occasional vomiting, but no other effects. Blood studies (hemoglobin, hae differential white cell counts) on dogs receiving 300 mg/kg orally or dermally or on rabbits re haematopoietic system. Gross and microscopic examination of the organs of all three specity call of that associated with burns of the skin. Thirteen other organs, including liver, splee the associated with burns of the skin. Thirteen other organs, including liver, splee observed in rats exposed for 6 hours to an aerosol of Deet. No gross or significant histologi Organ Toxicity : Hypertrophy of the kidneys and liver and effects of mild central nervous sy were noted in animals following repeated exposure. Significant testicular hypertrophy was certimed to 15.7% in the control. Injury was also, compared with 20.9% in the control. Injury was also, to probably significant). A dosage of 1 Teratogenic Effects : A dermal teratology study was conducted on rabbits. Groups of 20 pr 50, 100, 500, 1000, or 5000 mg Deet/kg/day in ethanol on shaved backs from day 0 through differences between control and treated animals with respect to the fertility index, number o animal. In addition, treatment did not change fetal weight, fetal length or placental weights a tissue anomalies were observed in treated groups when compared with untreated controls. or embryotoxic effects in rabbits exposed dermally to technical Deet. An additional supplementary teratology study was conducted on rats. Groups of 20 pregnar containing 0, 8, 20 or 80 mg/kg/Deet by gavage from day 5 through day 15 of gestation. No and treated mothers with respect to fertility, fetuses per animal. In addition, a related increase Carcinogenicity . Researchers fed Deet to male and female rats in the diet for two years a 400 mg/kg/day, respectively. Researchers fed mice 250, 500, or 1,000 mg/kg/day f	carried out on rats, rabbits, and dogs. In these oral es of 100 and 300 mg/kg/day caused tremor and matocrit, sedimentation rate, platelet counts, total and aceiving 300 mg/kg dermally revealed no effect on the ies revealed only slight kidney damage in rabbits in, and bone marrow, were normal in the three species or air saturated with Deet. No toxic effects were cal changes were seen . stem stimulation including tremors and hyperactivity observed in male rats repeatedly fed a diet containing g/day throughout pregnancy, implantation was ortality between birth and weaning was 44.0%, 100 mg/kg/day throughout pregnancy. regnant rabbits received daily dermal applications of 0, h day 29 of gestation. There were no significant fimplantations per animal, or number of fetuses per and no increases in the incidence of skeletal or soft. This study demonstrated that Deet has no teratogenic the tasts were daily administered 10 ml of peanut oil significant differences were reported between control However, the study did show decreases in number of e was observed in the number of resorptions per dam t doses of 10, 30, or 100 mg/kg/day. No specific use studies designed to test for mutagenicity to e significant potential for mutagenicity all organs including the brain and the foetus. The longed exposure to irritants may produce
Acute Toxicity	X Carcinogenicity	×
Skin Irritation/Corrosion	× Reproductivity	×
Serious Eve Damage/Irritation	X STOT - Single Exposure	×
Respiratory or Skin sensitisation	X STOT - Repeated Exposure	×

SECTION 12 Ecological information

Mutagenicity

×

Toxicity					
Rid Insect Repellant	Endpoint	Test Duration (hr)	Species	Value	Source
Sunscreen Combo SPF50+ Lotion	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
pyrethrum	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
N,N-diethyl-m-toluamide	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted fror V3.12 (QSAR Data 6. NITE	n 1. IUCLID Toxicity Data 2. Europe ECHA Register) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecc (Japan) - Bioconcentration Data 7. METI (Japan) - E	ed Substances - Ecotoxicological Information - Aq otox database - Aquatic Toxicity Data 5. ECETOC Sicconcentration Data 8. Vendor Data	uatic Toxicity 3. Aquatic Hazard	EPIWIN Suite Assessment

X

Data available to make classification

X – Data either not available or does not fill the criteria for classification

Aspiration Hazard

Legend:

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

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

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 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. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. 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 sever 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

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

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SECTION 15 Regulatory information

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

pyrethrum 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 2

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

National Inventory Status

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

Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status			
National Inventory	Status		
Australia - AIIC	Yes		
Australia Non-Industrial Use	vo (pyrethrum; N,N-diethyl-m-toluamide)		
Canada - DSL	Yes		
Canada - NDSL	No (pyrethrum; N,N-diethyl-m-toluamide)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	No (pyrethrum)		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	No (pyrethrum)		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		

National Inventory	Status	
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	06/11/2015

SDS Version Summary

Version	Issue Date	Sections Updated
3.1.1.1	11/08/2016	Ingredients
4.1.1.1	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. 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 This document is copyright.

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