

Coles Supermarkets

Chemwatch: **5228-54** Version No: **4.1** Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements Chemwatch Hazard Alert Code: 4 Issue Date: 10/12/2021

Print Date: 05/02/2023 S.GHS.AUS.EN.E

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

Product Identifier

Product name	Coles Personal Insect Repellent Tropical Strength 150g
Synonyms	Not Available
Proper shipping name	AEROSOLS
Chemical formula	Not Applicable
Other means of identification	Item Code: 6466804, APN Barcode: 9300601345533, 6466804, 9300601345533, APN Barcode: 9300601345533

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

Relevant identified uses	Personal/domestic insecticide.
Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Coles Supermarkets
Address	800 Toorak Road Hawthorn East VIC 3123 Australia
Telephone	FreeCall 1800 061 562 (Weekdays 8:30am-6:00pmAEST)
Fax	Not Available
Website	www.coles.com.au
Email	Not Available

Emergency telephone number

Association / Organisation	Poisons Information Centre, First Aid 24 Hour	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	13 11 26	+61 1800 951 288
Other emergency telephone numbers	Not Available	+61 3 9573 3188

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Chemwatch Hazard Ratings

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Coles Personal Insect Repellent Tropical Strength 150g

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

Poisons Schedule	Not Applicable
Classification ^[1]	Aerosols Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

AUH044	Risk of explosion if heated under confinement.
H222+H229	Extremely flammable aerosol. Pressurized container: may burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P273	Avoid release to the environment.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.
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.
P362+P364	Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage

P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statement(s) Disposal

P501	Dispose
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Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

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SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight] Name		
134-62-3	19.1	N,N-diethyl-m-toluamide	
Not Available		(191g/kg)	
113-48-4	4	2-ethylhexyl bicycloheptene dicarboximide	
Not Available		(40g/kg)	
68475-59-2.	30	alkanes C3-4.	
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye 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 solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.
Inhalation	 If aerosols, fumes or combustion products are inhaled: Remove to fresh air. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 Avoid giving milk or oils. Avoid giving alcohol. Not considered a normal route of entry. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

SMALL FIRE:

Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog.

Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting

Alert Fire Brigade and tell them location and nature of hazard.

Continued...

	 May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame.
Fire/Explosion Hazard	 Vapour forms an explosive mixture with air. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) nitrogen oxides (NOX) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.
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. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation. Wipe up. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour.

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

SECTION 7 Handling and storage

Precautions for safe handling

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. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke.
Other information	 Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
	Continued.

No smoking, naked lights, heat or ignition sources.
 Keep containers securely sealed. Contents under pressure.
 Store away from incompatible materials.
Store in a cool, dry, well ventilated area.
Avoid storage at temperatures higher than 40 deg C.

Conditions for safe storage, including any incompatibilities

Suitable container	 Aerosol dispenser. Check that containers are clearly labelled.
Storage incompatibility	 Avoid reaction with oxidising agents Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances Avoid strong acids, bases.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	alkanes C3-4.	LPG (liquified petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	alkanes C3-4.	Butane	800 ppm / 1900 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1 TEEL-2			TEEL-3
alkanes C3-4.	Not Available	Not Available		Not Available
alkanes C3-4.	65,000 ppm	2.30E+05 ppm		4.00E+05 ppm
Ingredient	Original IDLH		Revised IDLH	
N,N-diethyl-m-toluamide	Not Available		Not Available	
2-ethylhexyl bicycloheptene dicarboximide	Not Available		Not Available	
alkanes C3-4.	2,000 ppm		1,600 ppm	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit		
N,N-diethyl-m-toluamide	E	≤ 0.1 ppm	
2-ethylhexyl bicycloheptene dicarboximide	E	≤ 0.1 ppm	
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

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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation 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 conditions.

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Personal protection	
Eye and face protection	No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE: For potentially moderate or heavy exposures: • Safety glasses with side shields. • NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.
Skin protection	See Hand protection below
Hands/feet protection	 NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general protective gloves, eg. light weight rubber gloves. For potentially heavy exposures: Wear chemical protective gloves, eg. PVC. and safety footwear.
Body protection	See Other protection below
Other protection	 No special equipment needed when handling small quantities. OTHERWISE: Overalls. Skin cleansing cream. Eyewash unit. Do not spray on hot surfaces. The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton. Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost. BRETHERICK: Handbook of Reactive Chemical Hazards.

Respiratory protection

Type AX-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 5 x ES	Air-line*	AX-2 P2	AX-PAPR-2 P2 ^
up to 10 x ES	-	AX-3 P2	-
10+ x ES	-	Air-line**	-

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

^ - 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)

+ 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

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear, colourless liquid aerosol with a pleasant fragrance; partially soluble in water.		
Physical state	Liquid	Relative density (Water = 1)	0.885

Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-114 approx.(freezing point)	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	<5.8 @ 20 deg.C	Gas group	Not Available
Solubility in water	Partly miscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	1.59 approx.	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Elevated temperatures. Presence of open flame. 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

Information on toxicolog	
Inhaled	 Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Swallowing DEET has caused irritability, bizarre movements, depressed muscle stretch reflex, low blood pressure, seizures and coma. Toxic doses in rats have produced excessive tear secretion, shedding of bloody tears, depression, tremors, coma and convulsions before death. Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness,

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	may result in respiratory depression and may be fata	
Skin Contact	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. 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. Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.	
Eye	Although the material 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). Not considered to be a risk because of the extreme volatility of the gas.	
Chronic	occupational exposure. There is limited evidence that, skin contact with this compared to the general population. Based on experience with similar materials, there is levels which do not cause other toxic effects. Exposure to DEET is usually by inhaling mists or var Repeated exposure to DEET can cause slight irritatii sensation. Some individuals have shown nervous sy abnormal sweating, irritability, depression, paranoia,	ccur and may cause some concern following repeated or long-term product is more likely to cause a sensitisation reaction in some persons a possibility that exposure to the material may reduce fertility in humans at pours, or through skin contact/absorption. ion and dryness of the face, sloughing around the nose and a tingling ystem symptoms (muscle cramp, urinary hesitation, difficulty sleeping, , confusion and aggressive behaviour) and brain disease. Allergy and
	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd	ne case, a 5-year-old girl died, likely as a result of sensitisation to DEET. Is by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking
Coles Personal Insect	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hy disturbance, weight loss and anaemia, and reduced and redness of the skin.	s by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking
Coles Personal Insect Repellent Tropical Strength 150g	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hy disturbance, weight loss and anaemia, and reduced	s by inhalation. drocarbons may produce stupor with dizziness, weakness and visual
Repellent Tropical	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd disturbance, weight loss and anaemia, and reduced and redness of the skin.	s by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION
Repellent Tropical Strength 150g	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd disturbance, weight loss and anaemia, and reduced and redness of the skin.	is by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION Not Available
Repellent Tropical	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hy disturbance, weight loss and anaemia, and reduced and redness of the skin. TOXICITY Not Available TOXICITY	is by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION Not Available IRRITATION
Repellent Tropical Strength 150g	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd disturbance, weight loss and anaemia, and reduced and redness of the skin. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 3180 mg/kg ^[2]	is by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION Not Available IRRITATION Eye (rabbit) : 10 mg - moderate
Repellent Tropical Strength 150g	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd disturbance, weight loss and anaemia, and reduced and redness of the skin. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 3180 mg/kg ^[2]	is by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION Not Available IRRITATION Eye (rabbit) : 10 mg - moderate Eye (rabbit): 100 mg
Repellent Tropical Strength 150g N,N-diethyl-m-toluamide 2-ethylhexyl	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd disturbance, weight loss and anaemia, and reduced and redness of the skin. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 3180 mg/kg ^[2] Oral (Rat) LD50: 1950 mg/kg ^[2]	is by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION Not Available IRRITATION Eye (rabbit) : 10 mg - moderate Eye (rabbit): 100 mg Skin (rabbit): 500 mg - moderate
Repellent Tropical Strength 150g N,N-diethyl-m-toluamide	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd disturbance, weight loss and anaemia, and reduced and redness of the skin. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 3180 mg/kg ^[2] Oral (Rat) LD50: 1950 mg/kg ^[2]	s by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION Not Available IRRITATION Eye (rabbit) : 10 mg - moderate Eye (rabbit): 100 mg Skin (rabbit): 500 mg - moderate IRRITATION
Repellent Tropical Strength 150g N,N-diethyl-m-toluamide 2-ethylhexyl bicycloheptene	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd disturbance, weight loss and anaemia, and reduced and redness of the skin. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 3180 mg/kg ^[2] Oral (Rat) LD50: 1950 mg/kg ^[2] TOXICITY dermal (rat) LD50: 470 mg/kg ^[2]	is by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION Not Available IRRITATION Eye (rabbit) : 10 mg - moderate Eye (rabbit): 100 mg Skin (rabbit): 500 mg - moderate IRRITATION Eye: no adverse effect observed (not irritating) ^[1]
Repellent Tropical Strength 150g N,N-diethyl-m-toluamide 2-ethylhexyl bicycloheptene dicarboximide	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd disturbance, weight loss and anaemia, and reduced and redness of the skin. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 3180 mg/kg ^[2] Oral (Rat) LD50: 1950 mg/kg ^[2] TOXICITY dermal (rat) LD50: 470 mg/kg ^[2] Inhalation(Rat) LC50: 1.94 mg/l4h ^[1]	is by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION Not Available IRRITATION Eye (rabbit) : 10 mg - moderate Eye (rabbit): 100 mg Skin (rabbit): 500 mg - moderate IRRITATION Eye: no adverse effect observed (not irritating) ^[1]
Repellent Tropical Strength 150g N,N-diethyl-m-toluamide 2-ethylhexyl bicycloheptene	Main route of exposure to the gas in the workplace is Constant or exposure over long periods to mixed hyd disturbance, weight loss and anaemia, and reduced and redness of the skin. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 3180 mg/kg ^[2] Oral (Rat) LD50: 1950 mg/kg ^[2] TOXICITY dermal (rat) LD50: 470 mg/kg ^[2] Inhalation(Rat) LC50: 1.94 mg/l4h ^[1] Oral (Mouse) LD50; 1000 mg/kg ^[2]	is by inhalation. drocarbons may produce stupor with dizziness, weakness and visual liver and kidney function. Skin exposure may result in drying and cracking IRRITATION Not Available IRRITATION Eye (rabbit) : 10 mg - moderate Eye (rabbit): 100 mg Skin (rabbit): 500 mg - moderate IRRITATION Eye: no adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1]

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For 2-ethylhexyl (or N-octyl) bicycloheptene dicarboximide (MGK-264): The dermal absorption factor of MGK-264 is approximately 10%. Animal testing showed that it can cause changes to cells of the airway. It is not toxic to the immune system 2-ETHYLHEXYL or nervous system. MGK-264 affects the liver cells and causes benign tumours of the liver and thyroid, and has been identified BICYCLOHEPTENE as possibly causing cancer in humans. At higher doses, MGK-264 may reduce viability of offspring. It did not affect reproductive DICARBOXIMIDE performance. It is of low concern regarding mutations or genetic toxicity. It appears to be absorbed and excreted with little breakdown product retained. ALKANES C3-4. No significant acute toxicological data identified in literature search. inhalation of the gas N,N-DIETHYL-**M-TOLUAMIDE &** The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, 2-ETHYLHEXYL the production of vesicles, scaling and thickening of the skin. BICYCLOHEPTENE DICARBOXIMIDE Acute Toxicity Carcinogenicity × x Skin Irritation/Corrosion ~ Reproductivity ¥ Serious Eye Ý STOT - Single Exposure × Damage/Irritation **Respiratory or Skin** × STOT - Repeated Exposure × sensitisation Mutagenicity × **Aspiration Hazard** ×

Legend:

Data either not available or does not fill the criteria for classification
 Data available to make classification

SECTION 12 Ecological information

epellent Tropical Strength 150g	Not					Source
	Available	Not Available	Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Val	ue	Source
	BCF	1008h	Fish	0.8-	-2.4	7
N,N-diethyl-m-toluamide	LC50	96h	Fish	70.9	965mg/L	4
	EC50	48h	Crustacea	55.	776-99.6mg/L	4
NC	NOEC(ECx)	48h	Fish	0.00	006mg/l	4
	Endpoint	Test Duration (hr)	Species	Val	ue	Source
	ErC50	72h	Algae or other aquatic plants	>4.	38mg/l	2
2-ethylhexyl	LC50	96h	Fish	0.13	38-0.211mg/L	4
bicycloheptene dicarboximide	EC50	72h	Algae or other aquatic plants	>1.	63<2.7mg/l	2
	EC50	48h	Crustacea	1.9	95-4.83mg/L	4
	NOEC(ECx)	96h	Crustacea	<0.	077mg/l	2
	Endpoint	Test Duration (hr)	Species		Value	Source
	LC50	96h	Fish		24.11mg/l	2
alkanes C3-4.	EC50(ECx)	96h	Algae or other aquatic pla	ants	7.71mg/l	2
	EC50	96h	Algae or other aquatic pla	ants	7.71mg/l	2
Legend:			e ECHA Registered Substances - Ecot	0	,	
alkanes C3-4. Legend:	EC50 Extracted from	96h 1. IUCLID Toxicity Data 2. Europ	Algae or other aquatic pla	ants oxicological Info		7.71mg/l

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient

Persistence: Water/Soil

Persistence: Air

Ingredient	Persistence: Water/Soil	Persistence: Air
N,N-diethyl-m-toluamide	HIGH	HIGH
2-ethylhexyl bicycloheptene dicarboximide	HIGH	HIGH
alkanes C3-4.	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
N,N-diethyl-m-toluamide	LOW (BCF = 2.4)
2-ethylhexyl bicycloheptene dicarboximide	LOW (LogKOW = 3.7)
alkanes C3-4.	LOW (LogKOW = 2.89)

Mobility in soil

Ingredient	Mobility
N,N-diethyl-m-toluamide	LOW (KOC = 536.6)
2-ethylhexyl bicycloheptene dicarboximide	LOW (KOC = 10410)
alkanes C3-4.	LOW (KOC = 43.79)

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. Consult State Land Waste Management Authority for disposal. Discharge contents of damaged aerosol cans at an approved site. Allow small quantities to evaporate. DO NOT incinerate or puncture aerosol cans. Bury residues and emptied aerosol cans at an approved site.
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SECTION 14 Transport information

Labels Required



Marine Pollutant HAZCHEM Not Applicable

Land transport (ADG)

UN number	1950	1950		
UN proper shipping name	AEROSOLS	AEROSOLS		
Transport hazard class(es)	Class2.1SubriskNot Applicable			
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisio			

Air transport (ICAO-IATA / DGR)

UN number	1950			
UN proper shipping name	Aerosols, flammable; Aerosols, flammable (engine starting fluid)			
	ICAO/IATA Class	2.1		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	EKG CODE	IUL		
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
	Special provisions		A145 A167 A802; A1 A145 A167 A802	
	Cargo Only Packing Instructions		203	
	Cargo Only Maximum Qty / Pack		150 kg	
Special precautions for user	Passenger and Cargo Packing Instructions		203; Forbidden	
	Passenger and Cargo Maximum Qty / Pack		75 kg; Forbidden	
	Passenger and Cargo Limited Quantity Packing Instructions		Y203; Forbidden	
	Passenger and Cargo Limited Maximum Qty / Pack		30 kg G; Forbidden	

Sea transport (IMDG-Code / GGVSee)

UN number	1950			
UN proper shipping name	AEROSOLS	AEROSOLS		
Transport hazard class(es)	IMDG Class2.1IMDG SubriskNot Applicable			
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
Special precautions for user	EMS Number Special provisions Limited Quantities	F-D, S-U 63 190 277 327 344 381 959 1000 ml		

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

Not Applicable

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
N,N-diethyl-m-toluamide	Not Available
2-ethylhexyl bicycloheptene dicarboximide	Not Available
alkanes C3-4.	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
N,N-diethyl-m-toluamide	Not Available
2-ethylhexyl bicycloheptene dicarboximide	Not Available
alkanes C3-4.	Not Available

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

Chemwatch: 5228-54	Page 12 of 12			Issue Date: 10/12/2021
Part Number: // Version No: 4.1	Coles Personal Insect Repell	Coles Personal Insect Repellent Tropical Strength 150g		Print Date: 05/02/2023
Australia Hazardaus Chamica	I Information System (HCIS) - Hazardous	Australian Inventory of Industrial Chamical		
Chemicals	ninomation System (nCiS) - nazardous	Australian Inventory of Industrial Chemicals	s (AllC)	
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5				
2-ethylhexyl bicycloheptene	dicarboximide is found on the following regulat	tory lists		
Australia Standard for the Unif (SUSMP) - Schedule 5	form Scheduling of Medicines and Poisons	Australian Inventory of Industrial Chemicals	s (AIIC)	
alkanes C3-4. is found on th	e following regulatory lists			
Australia Hazardous Chemical Chemicals	I Information System (HCIS) - Hazardous	Chemical Footprint Project - Chemicals of H	High Concern Li	st
Australian Inventory of Industr	ial Chemicals (AIIC)			

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (N,N-diethyl-m-toluamide; 2-ethylhexyl bicycloheptene dicarboximide; alkanes C3-4.)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	No (2-ethylhexyl bicycloheptene dicarboximide)
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	No (2-ethylhexyl bicycloheptene dicarboximide)
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	No (2-ethylhexyl bicycloheptene dicarboximide)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	10/12/2021
Initial Date	27/11/2016

SDS Version Summary

Version	Date of Update	Sections Updated
3.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
4.1	10/12/2021	Classification change due to full database hazard calculation/update.

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.

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