

RID Australia	Chemwatch Hazard Alert Code: 4
Chemwatch: 36-6832	Issue Date: <b>31/05/2023</b> Print Date: <b>04/07/2023</b>
Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements	S.GHS.AUS.EN.E

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

### Product Identifier

Product name	RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol
Chemical Name	Not Applicable
Synonyms	428151 Aerosol 150g; 428300 Aerosol 300g
Proper shipping name	AEROSOLS
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses Medicated insect bite treatment and personal insect repellent in aerosol form. Use according to manufacturer's directions.	
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#### Details of the manufacturer or 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 4772 1411
Other emergency telephone numbers	Not Available

#### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

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

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

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Aerosols Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

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.
H336	May cause drowsiness or dizziness.

#### Precautionary statement(s) Prevention

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.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

#### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### Precautionary statement(s) Disposal

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

### **SECTION 3 Composition / information on ingredients**

P501

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
64-17-5	30-60	ethanol
134-62-3	10-30	N.N-diethyl-m-toluamide
Not Available	balance	Ingredients determined not to be hazardous
68476-85-7.	10-30	hydrocarbon propellant
Legend:	1. Classified by Chernwatch; 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 measure	es
Eye Contact	<ul> <li>If aerosols come in contact with the eyes:</li> <li>Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>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.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>

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Skin Contact	If solids or aerosol mists are deposited upon the skin: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Remove any adhering solids with industrial skin cleansing cream.</li> <li>DO NOT use solvents.</li> <li>Seek medical attention in the event of irritation.</li> </ul>
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	Not considered a normal route of entry.

### 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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition with violent container rupture.</li> <li>Aerosol cans may explode on exposure to naked flames.</li> <li>Rupturing containers may rocket and scatter burning materials.</li> <li>Hazards may not be restricted to pressure effects.</li> <li>May emit acrid, poisonous or corrosive fumes.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOX)</li> <li>other pyrolysis products typical of burning organic material.</li> <li>Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.</li> </ul>
HAZCHEM	Not Applicable
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### **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	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> <li>Wipe up.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses</li> </ul>

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.
Absorb or cover spill with sand, earth, inert materials or vermiculite.
If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.
Undamaged cans should be gathered and stowed safely.
Collect residues and seal in labelled drums for disposal.

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

### SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.  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.  DO NOT incinerate or puncture aerosol cans.  DO NOT spray directly on humans, exposed food or food utensils.  Avoid physical damage to containers.  Advoid physical damage to containers.  Advoid physical damage to containers.  Advoid be laundered separately. 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	<ul> <li>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Keep containers securely sealed. Contents under pressure.</li> <li>Store away from incompatible materials.</li> <li>Store in a cool, dry, well ventilated area.</li> <li>Avoid storage at temperatures higher than 40 deg C.</li> <li>Store in an upright position.</li> <li>Protect containers against physical damage.</li> <li>Check regularly for spills and leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>
Storage incompatibility	<ul> <li>Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.</li> <li>Avoid strong bases.</li> </ul>

X — Must not be stored together

**0** — May be stored together with specific preventions

х

+ — May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

## 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	ethanol	Ethyl alcohol	1000 ppm / 1880 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	hydrocarbon propellant	LPG (liquified petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available

Emergency Limits			
Ingredient	TEEL-1	TEEL-2	TEEL-3
ethanol	Not Available	Not Available	15000* ppm

Version No: 15.2

Speed:

#### **RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol**

Ingredient	TEEL-1	TEEL-2		TEEL-3
hydrocarbon propellant	65,000 ppm	2.30E+05 ppm		4.00E+05 ppm
Ingredient	Original IDLH		Revised IDLH	
ethanol	3,300 ppm		Not Available	
N,N-diethyl-m-toluamide	Not Available		Not Available	
hydrocarbon propellant	2,000 ppm		Not Available	
Occupational Exposure Ban	ding			
Ingredient	Occupational Exposure Bar	nd Rating	Occupational Exp	osure Band Limit
N,N-diethyl-m-toluamide	E		≤ 0.1 ppm	
Notes:	Occupational exposure bandii adverse health outcomes ass range of exposure concentrat	ng is a process of assigning chemicals i ociated with exposure. The output of thi ions that are expected to protect worker	nto specific categories or b s process is an occupation health.	bands based on a chemical's potency and the bal exposure band (OEB), which corresponds to a
Exposure controls				
	Engineering controls are used be highly effective in protectin The basic types of engineerin Process controls which involv Enclosure and/or isolation of a "adds" and "removes" air in th ventilation system must match Employers may need to use n General exhaust is adequate obtain adequate protection. Provide adequate ventilation i	I to remove a hazard or place a barrier b g workers and will typically be independ g controls are: e changing the way a job activity or pro- emission source which keeps a selected e work environment. Ventilation can rer in the particular process and chemical or nultiple types of controls to prevent emp under normal conditions. If risk of overe n warehouse or closed storage areas.	between the worker and the lent of worker interactions is cess is done to reduce the I hazard "physically" away nove or dilute an air contar contaminant in use. loyee overexposure. xposure exists, wear SAA	e hazard. Well-designed engineering controls can to provide this high level of protection. risk. from the worker and ventilation that strategically minant if designed properly. The design of a approved respirator. Correct fit is essential to

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Appropriate engineering
a sustain the

Type of Contaminant:

neering	aerosols, (released at low velocity into zone of active gener	0.5-1 m/s	
ontrols	direct spray, spray painting in shallow booths, gas discharg	1-2.5 m/s (200-500 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	

1. Room all currents minimal of lavourable to capture	1. Disturbing foom all 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 bood 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.

Individual protection measures, such as personal protective equipment	
Eye and face protection	No special equipment for minor exposure i.e. when handling small quantities. <b>OTHERWISE:</b> For potentially moderate or heavy exposures: Safety glasses with side shields. <b>NOTE:</b> Contact lenses pose a special hazard; soft lenses may absorb irritants and <b>ALL</b> lenses concentrate them.
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: Vorralls. Skin cleansing cream. Eyewash unit. Do not spray on hot surfaces.

## Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

#### 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

The effect(s) of the following substance(s) are taken into account in the computergenerated selection

RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol

Material	CPI
BUTYL	А
NEOPRENE	A
NITRILE	А
NITRILE+PVC	A
PE/EVAL/PE	А
PVC	В
NATURAL RUBBER	С
NATURAL+NEOPRENE	С

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

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 = Sulfu 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	Pale yellow flammable liquid with a mild odour; partially miscible with water (50% of liquid is water soluble).				
Physical state	Liquid	Relative density (Water = 1)	0.82		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	78 (initial)	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	<-81 (propellant)	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	HIGHLY FLAMMABLE.	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)	70-80		
Vapour pressure (kPa)	Not Available	Gas group	Not Available		
Solubility in water	Partly 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	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## Information on toxicological effects

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. 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. 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. WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.			
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Considered an unlikely route of entry in commercial/industrial environments			
Skin Contact	The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. 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.			
Еуе	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.			
Chronic	Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. 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. WARNING: Aerosol containers may present pressure related hazards.			
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RID Tropical Antiseptic Bite Protection 8hr Insect	тохісіту	IRRITATION		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol	TOXICITY Not Available	IRRITATION Not Available		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol	TOXICITY Not Available TOXICITY	IRRITATION Not Available IRRITATION		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup>	IRRITATION         Not Available       IRRITATION         Eye (rabbit): 500 mg SEVERE		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup>	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit):100mg/24hr-moderate		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol ethanol	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup>	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit):100mg/24hr-moderate         Eye: adverse effect observed (irritating) <sup>[1]</sup>		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol ethanol	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup>	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit): 100mg/24hr-moderate         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit):20 mg/24hr-moderate		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol ethanol	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup>	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit): 100 mg/24hr-moderate         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate		
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RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol ethanol	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup> TOXICITY	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit): 100mg/24hr-moderate         Eye (rabbit): 100mg/24hr-moderate         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):400 mg (open)-mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol ethanol	TOXICITY         Not Available         TOXICITY         Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup> TOXICITY         Dermal (rabbit) LD50: 3180 mg/kg <sup>[2]</sup>	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit): 100mg/24hr-moderate         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):400 mg (open)-mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye (rabbit) : 10 mg - moderate		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol ethanol	TOXICITY           Not Available           TOXICITY           Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: 3180 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 1950 mg/kg <sup>[2]</sup>	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit): 100mg/24hr-moderate         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):400 mg (open)-mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye (rabbit) : 10 mg - moderate         Eye (rabbit) : 10 mg		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol ethanol	TOXICITY           Not Available           TOXICITY           Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup>	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit): 100mg/24hr-moderate         Eye (rabbit): 100mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):400 mg (open)-mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye (rabbit): 10 mg - moderate         Eye (rabbit): 100 mg         Skin (rabbit): 500 mg - moderate		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol ethanol	TOXICITY           Not Available           TOXICITY           Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: 3180 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 1950 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 1950 mg/kg <sup>[2]</sup>	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit): 100mg/24hr-moderate         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):400 mg (open)-mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye (rabbit): 10 mg - moderate         Eye (rabbit): 100 mg         Skin (rabbit): 500 mg - moderate         IRRITATION         IRRITATION		
RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol ethanol N,N-diethyl-m-toluamide hydrocarbon propellant	TOXICITY           Not Available           TOXICITY           Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup> Inhalation(Rat) LC50: 64000 ppm4h <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 7060 mg/kg <sup>[2]</sup> Dermal (rabbit) LD50: 3180 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 1950 mg/kg <sup>[2]</sup> Oral (Rat) LD50: 1950 mg/kg <sup>[2]</sup> Inhalation(Rat) LC50: 658 mg/l4h <sup>[2]</sup>	IRRITATION         Not Available         IRRITATION         Eye (rabbit): 500 mg SEVERE         Eye (rabbit): 100mg/24hr-moderate         Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):20 mg/24hr-moderate         Skin (rabbit):400 mg (open)-mild         Skin: no adverse effect observed (not irritating) <sup>[1]</sup> IRRITATION         Eye (rabbit): 10 mg - moderate         Eye (rabbit): 100 mg         Skin (rabbit): 500 mg - moderate         IRRITATION         IRRITATION         Not Available		

N,N-DIETHYL-M-TOLUAMIDE	Reproductive effector in rats For NN-diethyl-m-toluamide (Deet) Acute toxicity: Different preparations of Deet with different proportions of the m-isomer produced different oral LD50s. Rats killed by dosages in the LD50 range showed lacrimation, chromodacryorrhea, depression, prostration, tremors, and asphyxial convulsions. Respiratory failure usually preceded cardiac failure. In rabbits, an intravenous dosage of 75 mg/kg was rapidly fatal, but 50 mg/kg was not. Five doses at the rate of 25 mg/kg/day produced no cumulative effect, except for injury of the intima of some veins used for injection. Single dermal applications to rabbits at rates of 2 or 4 ml/kg produced no systemic effect, but did produce mild to moderate erythema. Repeated dermal application of 50% solutions for 13 weeks at the rate of 2 ml/kg/day produced no evidence of systemic toxicity but did produce desquamation, coriaceousness, dryness, and fissuring in the same species. Except for some scarring, these lesions cleared within 3 weeks. Instillation of Deet into the eyes of rabbits produced mild to moderate edema of the nicittating membrane, lacrimation, conjunctivitis, and some comeal injury, as revealed by fluorescein staining. After 5 days, all eyes appeared normal. No sensitisation was seen in guinea pigs. Animals topically exposed to Deet have developed dermal and ocular reactions. Dermal effects including erythema, desquamation and scarring in rabbits and profuse sweating, irritation and exfoliation in horses have been reported following repeated applications of Deet at concentrations of 50 percent or greater. Direct ocular application of either diluted (30 or 40 percent Deet) or undiluted Deet in rabbits has produced edema, tearing, conjunctivitis, pus and clouding in the eyes. Repeated dermal application to horses produced hypersteatosis, an overactivity of the selacious glands, when the solution of Deet was 15% or higher. Dermal application to horses produced hypersteatosis, an overactivity of skin reactions in humans. Cases of localiz
	resulting from topical Deet exposure has been noted in both children and adults. In one instance involving only limited Deet exposure, the

	urticaria was accompanied by an anaphylactic reaction Controlled human exposure studies using 50 or 75 pe Army conducted an investigation in volunteers using 7 (48%) had severe dermal reactions at the crease of the ment tested with ethanol solvent alone. Several cases of toxic encephalopathy associated with case involved a 3.5 year old gif whose body, bedclott 15 percent Deet. Since then, five additional cases of the children, all of whom were females. The toxic enceph and in three cases resulted in death. Autopsies condu- lesions in the cerebellum and spinal cord and an enlal heterozygous for ornithine carbamoyl transferase defi- above) and it has been hypothesised that children with deficiency which usually causes infant death in males products has produced neurotoxic effects similar to th Generalised seizures have also been temporally asso- those described above in that they involved males (for and resolved rapidly. Lower exposure to Deet in these for the effects being less severe than in females. That subpopulation is at greater risk of adverse reaction fol Signs and symptoms of more subtle neurotoxicity hav results indicate that Everglades National Park employ and impaired cognitive function than were lesser expo- prolonged periods in a sauna was reported to develop Either o-DET or p-DET, or both occur as impurities in o-isomer is slightly more toxic than the others (oral LD that the presence of 5% of o-DET or p-DET as impurit <b>Chronic toxicity</b> : When rats were fed Deet at a dieta decrease in food intake. There was a significant incre- and the kidneys of both males and females. Some of significant histological changes were seen at any diet mg/kg/day). Essentially identical results were found in other subac studies, 2,000 ppm proved to be a no-effect-level. Ora hyperactivity and occasional vomiting, but no other eff differential white cell counts) on dogs receiving 300 m haematopoietic system. Gross and microscopic exam typical of that associated with burns of the skin. Thirte No systemic toxicity was obs	n . rccnt Deet have reproduced many of 75 percent Deet applied to the upper a ne elbow. No dermal reactions were of the the use of Deet in children have been terms and bedding were sprayed each no oxic encephalopathy have been temp halopathy was characterised by agitati- icted on two fatalities indicated oeden rged liver accompanied by microscopi- ciency (a sex linked enzyme deficience h this enzyme disorder may be at green- is of variable severity in females. Acco- ose described following dermal expos- cicated with the use of Deet-containing ur boys aged 3-7 years and one 29-ye- e males (four of five males had either or the majority of identified neurotoxic or lowing exposure to Deet than are adu e also been associated with extensive ees having extensive Deet exposure or pacute manic psychosis characterized commercial m-DET (Deet). A thorougi 550 1,210 mg/kg in rats). However, no ties in the ry level of 10,000 ppm for about 200 or ase in the relative weight of the testes these changes were seen in lesser de ary level and no changes of any kind or the adadministration of Deet to dogs at rati- fects. Blood studies (hemoglobin, hae g/kg orally or dermally or on rabbits re- ination of the organs of all three speci- en other organs, including liver, splee hours/day, 5 days/week for 7 weeks to Deet. No gross or significant histologi and effects of mild central nervous sy ignificant testicular hypertrophy was co- e skin of rats at the rate of 1,000 mg/k ompared with 20.9% in the control. Mu- t probably significant) at a dosage of 20 pr pol on shaved backs from day 0 througi respect to the fertility index, number or gh, feat length with untreated controls. technical Deet. ducted on rats. Groups of 20 pregnard day 5 through day 15 of gestation. No er litter, foetal weight or fetal survival. animal. In addition, a related increased for a probably significant second additor, a related any of the animals.Researchers often the indicates that DEET does not have- muty from	the dermal effects noted in field studies. The U.S. Irrm and elbow's crease. Of the 77 volunteers, 37 pserved on the upper arm or in the control group of an reported in the medical literature. The first reported ight for two weeks with an insect repellent containing orally associated with the use of Deet products in on, weakness, disorientation, ataxia, seizures, coma a of the brain, with one case presenting necrotic c changes. One child was reported to be y which may produce effects similar to those reported ater risk of adverse reactions to Deet. This enzyme idental and deliberate ingestion of Deet-containing ure. insect repellent on skin . These cases differ from ear-old adult), had few associated neurotoxic effects one or two dermal applications) may have accounted asses involved children raises concerns that this lts. e dermal application of Deet in adults. Questionnaire were more likely to have insomnia, mood disturbances ppeatedly applied Deet to his skin prior to spending by aggressive behavior, delusions and hyperactivity. In study of the o-and p-isomers showed that the alarming difference was found, and it was concluded lays, their growth rate was decreased without a and liver in males, of the liver and spleen in females, gree at a dietary level of 1,000 ppm. No gross or were noted at 100 ppm or 500 ppm (about 25 carried out on rats, rabbits, and dogs. In these oral es of 100 and 300 mg/kg/day caused tremor and matocit, sedimentation rate, platelet counts, total and seeiving 300 mg/kg dermally revealed no effect on the es revealed only slight kidney damage in rabbits in, and bone marrow, were normal in the three species air saturated with Deet. No toxic effects were cal changes were seen . stem stimulation including tremors and hyperactivity beerved in male rats repeatedly fed a diet containing g/day throughout pregnancy. end no increases in the incidence of skeletal or soft This study demonstrated that Deet has no teratogenic at rats were daily administered 10 ml of peanut oil significant differences
HYDROCARBON	The material may produce moderate eye irritation lead conjunctivitis.	ding to inflammation. Repeated or pro	longed exposure to irritants may produce
PROPELLANT ETHANOL & N.N-DIETHYI -	The material may cause skin irritation after prolonged	or repeated exposure and may produ	ce on contact skin redness, swelling, the production of
M-TOLUAMIDE	vesicles, scaling and thickening of the skin.	or repeated exposure and may produ	ou on contact skin reariess, sweining, the production of
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	¥	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	X	Aspiration Hazard	×

Legend:

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

## **SECTION 12 Ecological information**

Issue Date: **31/05/2023** Print Date: **04/07/2023** 

## RID Tropical Antiseptic Bite Protection 8hr Insect Repellent Aerosol

RID Tropical Antiseptic Bite	Endpoint	Test Duration (hr)	Species		Value	Source
Protection 8hr Insect Repellent Aerosol	Not Available	Not Available	Not Available		Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species		/alue	Sourc
	EC50(ECx)	96h	Algae or other aquatic plants		<0.001mg/L	4
	EC50	72h	Algae or other aquatic plants	2	275mg/l	2
ethanol	LC50	96h	Fish	4	12mg/l	4
	EC50	96h	Algae or other aquatic plants		<0.001mg/L	4
	EC50	48h	Crustacea	2	2mg/l	4
	Endpoint	Test Duration (hr)	Species	Value		Sour
	BCF	1008h	Fish	0.8-2.	4	7
N,N-diethyl-m-toluamide	LC50	96h	Fish	70.96	5mg/L	4
	EC50	48h	Crustacea	55.77	6-99.6mg/L	4
	NOEC(ECx)	48h	Fish	0.000	6mg/l	4
	Endpoint	Test Duration (hr)	Species		Value	Sour
	EC50(ECx)	96h	Algae or other aquatic plants		7.71mg/l	2
hydrocarbon propellant	LC50	96h	Fish		24.11mg/l	2
					"	

DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
N,N-diethyl-m-toluamide	HIGH	HIGH

## **Bioaccumulative potential**

Ingredient	Bioaccumulation	
ethanol	LOW (LogKOW = -0.31)	
N,N-diethyl-m-toluamide	LOW (BCF = 2.4)	

#### Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
N,N-diethyl-m-toluamide	LOW (KOC = 536.6)

### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal <ul> <li>bo NOT allow wash water from cleaning of process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Discharge contents of damaged aerosol cans at an approved site.</li> <li>Allow small quantities to evaporate.</li> <li>DO NOT incinerate or puncture aerosol cans.</li> <li>Bury residues and emptied aerosol cans at an approved site.</li> <li>Bury residues and emptied aerosol cans.</li> <li>Bury residues a</li></ul>

### **SECTION 14 Transport information**

## Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

#### Land transport (ADG)

UN number or ID number	1950	1950		
UN proper shipping name	AEROSOLS	AEROSOLS		
Transport hazard class(es)	Class2.1Subsidiary riskNot Applicable			
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions Limited quantity	63 190 277 327 344 381 1000ml		

#### Air transport (ICAO-IATA / DGR)

UN number	1950			
UN proper shipping name	Aerosols, flammable			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.1 Not Applicable 10L		
Packing group	Not Applicable			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions         Cargo Only Packing Instructions         Cargo Only Maximum Qty / Pack         Passenger and Cargo Packing Instructions         Passenger and Cargo Maximum Qty / Pack         Passenger and Cargo Limited Quantity Packing Instructions         Passenger and Cargo Limited Maximum Qty / Pack		A145 A167 A802 203 150 kg 203 75 kg Y203 30 kg G	

### 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
ethanol	Not Available
N,N-diethyl-m-toluamide	Not Available
hydrocarbon propellant	Not Available

### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
ethanol	Not Available
N,N-diethyl-m-toluamide	Not Available
hydrocarbon propellant	Not Available

## **SECTION 15 Regulatory information**

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

ethanol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

#### 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

### hydrocarbon propellant is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

Australian Inventory of Industrial Chemicals (AIIC)

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

#### National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (ethanol; N,N-diethyl-m-toluamide; hydrocarbon propellant)
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 - FBEPH	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. These ingredients may be exempt or will require registration.

#### **SECTION 16 Other information**

Revision Date	31/05/2023
Initial Date	23/08/2013

#### SDS Version Summary

Version	Date of Update	Sections Updated
15.1	31/05/2023	Identification of the substance / mixture and of the company / undertaking - Synonyms, Name
15.2	14/06/2023	Identification of the substance / mixture and of the company / undertaking - Synonyms, Name

#### 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 ES: Exposure Standard 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** AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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