

Virbac (Australia) Pty Limited

Chernwatch: 4606-7 Version No: 4.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 2 Issue Date: 05/10/2016

Print Date: 11/13/2017

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

Product Identifier

Product name	Cetrigen Antibacterial Wound Spray (Cetrigen Antibacterial Wound Spray)
Synonyms	Product Code: 45797
Other means of identification	Not Available
Relevant identified uses of the substance or mixture and uses advised against	

Relevant identified uses Antibacterial spray.

Details of the supplier of the safety data sheet

Registered company name	Virbac (Australia) Pty Limited
Address	361 Horsley Road Milperra NSW 2214 Australia
Telephone	1800 242 100
Fax	+61 2 9772 9773
Website	www.virbac.com.au
Email	au_customerservice@virbac.com.au

Emergency telephone number

Association / Organisation	Poisons Information Centre
Emergency telephone numbers	13 11 26
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Poisons Schedule	Not Applicable
Classification [1]	Skin Sensitizer Category 1, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI
Label elements	
Hazard pictogram(s)	
SIGNAL WORD	WARNING
Hazard statement(s)	
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s) Pr	revention
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.

P363	Wash contaminated clothing before reuse.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

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Cetrigen Antibacterial Wound Spray (Cetrigen Antibacterial Wound Spray)

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
134-62-3	4	N,N-diethyl-m-toluamide
		(40g/L)
136-45-8	2	di-n-propyl isocinchomeronate
		(20g/L)
505-86-2	0.1	cetyltrimethylammonium hydroxide
		(1g/L)
57-55-6	1-10	propylene glycol
Not Available	1-10	Ingredients determined not to be hazardous
7732-18-5	>60	water

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	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. 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. Transport to hospital or doctor without delay.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

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

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

In such an event consider:

foam.

- dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.	
Advice for firefighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers surb protected location. If safe to do so, remove containers from oath of fire. 	

	 Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke. Decomposes on heating and produces toxic fumes of: , carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.
HAZCHEM	Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

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

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

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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

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	propylene glycol	Propane-1,2-diol: particulates only	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	propylene glycol	Propane-1,2-diol total: (vapour & particulates)	474 mg/m3 / 150 ppm	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL	-1	TEEL-2	TEEL-3
propylene glycol	Polypropylene glycols	30 mg	/m3	330 mg/m3	2,000 mg/m3
propylene glycol	Propylene glycol; (1,2-Propanediol)	30 mg	/m3	1,300 mg/m3	7,900 mg/m3
Ingredient	Original IDLH		Revised IDLH		
N,N-diethyl-m-toluamide	Not Available		Not Available		
di-n-propyl isocinchomeronate	Not Available		Not Available		
cetyltrimethylammonium hydroxide	Not Available		Not Available		
propylene glycol	Not Available		Not Available		
Ingredients determined not to be hazardous	Not Available		Not Available		
water	Not Available		Not Available		

MATERIAL DATA

Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the highly effective in protecting workers and will typically be independent of worker interactions to pro The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the ris Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if design match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator Supplied-air type respirator may be required in special circumstances. Correct fit is essential to e An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the	ovide this high level of protection. sk. om the worker and ventilation that ined properly. The design of a vent r. Correct fit is essential to obtain a ensure adequate protection. the workplace possess varying "e	strategically "adds" and ilation system must dequate protection.
	Type of Contaminant:		Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (in still air).		
Appropriate engineering	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)		
controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)		
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).		
	Within each range the appropriate value depends on:		
	Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production. 3: High production, heavy use		
	4: Large hood or large air mass in motion 4: Small hood-local control only		
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple square of distance from the extraction point (in simple cases). Therefore the air speed at the extra reference to distance from the contaminating source. The air velocity at the extraction fan, for exar extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mecha the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of used.	action point should be adjusted, ac nple, should be a minimum of 1-2 nical considerations, producing pe	ccordingly, after m/s (200-400 f/min) for rformance deficits within

Personal protection



Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	 Wear adamtly forbuser or safety gumboots, e.g. PKUE Wear adamtly forbuser or safety gumboots, e.g. Rubber 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. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves, and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact. detoring resistance of glove material. glove thickness and detoring to EN374, ASNLS2 5161.10 or national equivalent). When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN374, ASNLS2 5161.10 or national equivalent). Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Some glove polymer types are less affected by movement and this should be taken in
Body protection	See Other protection below
Other protection	 Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available

Recommended material(s)

GLOVE SELECTION INDEX

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 5 x ES	A-AUS / Class 1 P2	-	A-PAPR-AUS / Class 1 P2
up to 25 x ES	Air-line*	A-2 P2	A-PAPR-2 P2
up to 50 x ES	-	A-3 P2	-
50+ x ES	-	Air-line**	-

 * - Continuous-flow; $\ ^{\ast\ast}$ - 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

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

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

Cetrigen Antibacterial Wound Spray (Cetrigen Antibacterial Wound Spray)

Material	CPI
BUTYL	С
NATURAL RUBBER	С
NEOPRENE	С
PE/EVAL/PE	С
PVA	С
VITON	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion **NOTE**: As a series of factors will influence the actual performance of the glove, a final

selection must be based on detailed observation. -

* 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.00
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	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 (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	123.96

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. Not normally a hazard due to non-volatile nature of product
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing

	martality rather than these producing markidity (disease ill health). Costraint	estinal tract discomfort may produce nausea and vomiting. In an occupational	
	setting however, ingestion of insignificant quantities is not thought to be cau		
	Skin contact is not thought to have harmful health effects (as classified unde through wounds, lesions or abrasions.	r EC Directives); the material may still produce health damage following entry	
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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 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	or mutagenic effects, in respect of the available information, however, there p Limited evidence suggests that repeated or long-term occupational exposure systems. Clinical symptoms and signs of intoxication following occupational exposure disturbance with diarrhoea, abdominal pain and nausea, weakness, headach alkyl derivatives of pyridine (picolines, lutidines collidines), nicotinonitrile and The available data support the conclusion that the pyridines possess similar liver and the male reproductive tract., The weight-of-evidence suggests that Pyridine and Pyridine Derivatives Cat of in vivo mutagenicity assays and carcinogenicity studies with negative resu Reproductive screening evaluations using several repeated dose toxicity stu reproductive toxicants. Exposures less than those which produce overt clinical signs may produce v and cellular infiltration; repeated low level exposures may produce siver neoplasm spectrum of toxic liver lesions. The mouse, an animal with a high background malignant liver neoplasms following chemical exposure. There is equivocal increased incidence of renal tubule neoplasms), in female rats of the same s rats (based on an increased incidence of mono- nuclear cell leukaemia), and on increased incidences of malignant hepatocellular neoplasms). 1: Nationa Principal routes of exposure are usually by inhalation of mists or vapours fror A 5 year old girl sprayed with Deet nightly for 3 months, developed headach motions especially of the hands), shaking, screaming and convulsion. She di	by at least one classification body that the material may produce carcinogenic resently exists inadequate data for making a satisfactory assessment. a may produce cumulative health effects involving organs or biochemical to pyridine, its homologues and derivatives include gastrointestinal e, insomnia and nervousness. Data indicate that piperidine, pyridine, methyl and a picolinonitrile are slightly to moderately toxic following acute exposures human health-related data, and in particular, target organs appear to be the egory chemicals are not mutagenic. This conclusion is supported by a number lits for pyridine. dies indicates that piperidine, pyridine and nicotinonitrile may be male arrying levels of liver damage with central lobular fatty degeneration, congestion The kidney is less sensitive to pyridine-induced damage than is the liver. In mice, but not in rats, even though in rats these chemicals cause a drate of liver neoplasms, is particularly sensitive to the development of evidence (1) that pyridine is carcinogenic in male F344/N rats (based on an species (based on increases in mononuclear cell leukaemia), in male Wistar d clear evidence of carcinogenicity (1) in male and female B6C3F1 mice (based in Toxicology Program Technical Report Series No. 470, March 2000 n heated material and skin contact/absorption.	
		of the face, desquamation around the nose and a slight tingling sensation. An reported. Some individuals repeatedly exposed to the substance have shown on, insomnia, abnormal sweating, irritability, depression, paranoia, episodes of	
Cotrigon Antibostorial Wound	Repeated application to human skin resulted in slight irritation and dryness of Incidences of sporadic allergy (anaphylaxis) and scarring dermatitis have bee encephalopathy and neurological symptoms (muscle cramp, urinary hesitati confusion, and aggressive behaviour). An increased incidence sperm head abnormalities and period nausea, vomiti	of the face, desquamation around the nose and a slight tingling sensation. In reported. Some individuals repeatedly exposed to the substance have shown on, insomnia, abnormal sweating, irritability, depression, paranoia, episodes of ng and nasal exudate were observed in animals following chronic exposure	
Cetrigen Antibacterial Wound Spray (Cetrigen Antibacterial	Repeated application to human skin resulted in slight irritation and dryness of Incidences of sporadic allergy (anaphylaxis) and scarring dermatitis have bee encephalopathy and neurological symptoms (muscle cramp, urinary hesitatic confusion, and aggressive behaviour). An increased incidence sperm head abnormalities and period nausea, vomiti TOXICITY	of the face, desquamation around the nose and a slight tingling sensation. en reported. Some individuals repeatedly exposed to the substance have shown on, insomnia, abnormal sweating, irritability, depression, paranoia, episodes of ng and nasal exudate were observed in animals following chronic exposure IRRITATION	
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Spray (Cetrigen Antibacterial Wound Spray)	Repeated application to human skin resulted in slight irritation and dryness of Incidences of sporadic allergy (anaphylaxis) and scarring dermatitis have bee encephalopathy and neurological symptoms (muscle cramp, urinary hesitatic confusion, and aggressive behaviour). An increased incidence sperm head abnormalities and period nausea, vomiti TOXICITY Not Available TOXICITY	IRRITATION IRRITATION Eye (rabbit) : 10 mg - moderate Eye (rabbit): 100 mg	
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Spray (Cetrigen Antibacterial Wound Spray) N,N-diethyl-m-toluamide	Repeated application to human skin resulted in slight irritation and dryness of Incidences of sporadic allergy (anaphylaxis) and scarring dermatitis have been encephalopathy and neurological symptoms (muscle cramp, urinary hesitatic confusion, and aggressive behaviour). An increased incidence sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitient to the sperm head abnormalities and period nausea, vomitient to the spermittee of the spectra spectra spectra spectra spectra spectra spectres of the spectra spectra spectra spectra spectres of the spectra	IRRITATION IRRITATION Eye (rabbit) : 10 mg Skin (rabbit): 500 mg - moderate	
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Spray (Cetrigen Antibacterial Wound Spray) N,N-diethyl-m-toluamide	Repeated application to human skin resulted in slight irritation and dryness of Incidences of sporadic allergy (anaphylaxis) and scarring dermatitis have been encephalopathy and neurological symptoms (muscle cramp, urinary hesitatic confusion, and aggressive behaviour). An increased incidence sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitien to the sperm head abnormalities and period nausea, vomitient to the sperm head abnormalities and period nausea, vomitient to the spermittee of the spectra spectra spectra spectra spectra spectra spectres of the spectra spectra spectra spectra spectres of the spectra	IRRITATION Eye (rabbit): 100 mg Skin (rabbit): 500 mg - moderate	
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 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances
alie exempted mon RTECS - Register of Table Ellect of deminal Subsences For NN definition expendions For NN definition For NN defi

	(spongiosis) and intracellular oedema of the epidermis.
	(sponglosis) and intracellular oedema of the epidermis. Reproductive effector in rats
DI-N-PROPYL ISOCINCHOMERONATE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody- mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.
CETYLTRIMETHYLAMMONIUM HYDROXIDE	For adjointent/paramenium clarification sufficient adjustment clarification and register with ICSB and R41: In dotation, currents and clarification states with the clarific or classification as a Learning (20) for site in and eyes with ICSB and R41: In dotation, currents and clarification states with the clarification and classification and clarification states and the clarification and clarification and eyes with ICSB and R41: In dotation, currents and clarification states with the clarification and clarification and clarification and eyes with ICSB and R41: In dotation, currents and clarification and clarification and clarification and clarification and eyes with ICSB and R41: In dotation and clarification and clari

bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production. The material may produce respiratory tract irritation. Symptoms of pulmonary irritation may include coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and a burning sensation. Unlike most organs, the lung can respond to a chemical insult or a chemical agent, by first removing or neutralising the irritant and then repairing the damage (inflammation of the lungs may be a consequence) The repair process (which initially developed to protect mammalian lungs from foreign matter and antigens) may, however, cause further damage to the lungs (fibrosis for example) when activated by hazardous chemicals. Often, this results in an impairment of gas exchange, the primary function of the lungs. Therefore prolonged exposure to respiratory irritants may cause sustained breathing difficulties. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. CETYLTRIMETHYLAMMONIUM No significant acute toxicological data identified in literature search. **HYDROXIDE & WATER** Acute Toxicity \bigcirc Carcinogenicity \bigcirc 0 0 Skin Irritation/Corrosion Reproductivity STOT - Single Exposure 0 Serious Eye Damage/Irritation 0 **Respiratory or Skin** ~ STOT - Repeated Exposure 0 sensitisation \odot Aspiration Hazard \bigcirc Mutagenicity

Legend:

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

O – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Cetrigen Antibacterial Wound	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
Spray (Cetrigen Antibacterial Wound Spray)	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
N,N-diethyl-m-toluamide	LC50	96	Fish	71.25mg/L	4
	EC50	48	Crustacea	75mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
li-n-propyl isocinchomeronate	LC50	96	Fish	0.44mg/L	4
	EC50	48	Crustacea	18mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
cetyltrimethylammonium hydroxide	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	710mg/L	4
propylene glycol	EC50	48	Crustacea	>1000mg/L	4
	EC50	96	Algae or other aquatic plants	19000mg/L	2
	NOEC	168	Fish	98mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
water	Not Available	Not Available	Not Available	Not Available	Not Available

(QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
N,N-diethyl-m-toluamide	HIGH	HIGH
di-n-propyl isocinchomeronate	HIGH	HIGH
propylene glycol	LOW	LOW

Version No: 4.1.1.1

Cetrigen Antibacterial Wound Spray (Cetrigen Antibacterial Wound Spray)

water	

LOW LOW		
	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
N,N-diethyl-m-toluamide	LOW (BCF = 2.4)
di-n-propyl isocinchomeronate	LOW (BCF = 8.6)
propylene glycol	LOW (BCF = 1)
water	LOW (LogKOW = -1.38)

Mobility in soil

Ingredient	Mobility
N,N-diethyl-m-toluamide	LOW (KOC = 536.6)
di-n-propyl isocinchomeronate	LOW (KOC = 420.4)
propylene glycol	HIGH (KOC = 1)
water	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. 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 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 drans. 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 lic

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

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

Australia Hazardous Substances Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS)

DI-N-PROPYL ISOCINCHOMERONATE(136-45-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

CETYLTRIMETHYLAMMONIUM HYDROXIDE(505-86-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

PROPYLENE GLYCOL(57-55-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards Australia Hazardous Substances Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS)

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (N,N-diethyl-m-toluamide; propylene glycol; water; cetyltrimethylammonium hydroxide; di-n-propyl isocinchomeronate)
China - IECSC	N (cetyltrimethylammonium hydroxide; di-n-propyl isocinchomeronate)
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (cetyltrimethylammonium hydroxide)
Korea - KECI	N (di-n-propyl isocinchomeronate)
New Zealand - NZIoC	Υ
Philippines - PICCS	N (cety/trimethylammonium hydroxide; di-n-propyl isocinchomeronate)
USA - TSCA	N (di-n-propyl isocinchomeronate)
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

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

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

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index This document is copyright.

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