Coil Defender AC Filter Treatment OZKEM PTY LTD

Chemwatch Hazard Alert Code: 3

Issue Date: **03/11/2021**Print Date: **08/11/2021**L.GHS.AUS.EN

Chemwatch: **5495-23** Version No: **2.1**

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

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

Product Identifier		
Product name	Coil Defender AC Filter Treatment	
Chemical Name	Not Applicable	
Synonyms	Not Available	
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	Antimicrobial treatment for hvac filters.

Details of the supplier of the safety data sheet

Registered company name	OZKEM PTY LTD
Address	UNIT 34 / 34-36 RALPH ST ALEXANDRIA NSW 2015 Australia
Telephone	+61 2 8339 1401
Fax	Not Available
Website	www.coildefender.com.au
Email	info@coildefender.com.au

Emergency telephone number

Association / Organisation	OZKEM PTY LTD	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+61 4 3888 2060 (Mon-Fri 9am to 5pm)	+61 2 9186 1132
Other emergency telephone numbers	Not Available	+61 1800 951 288

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

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Label elements

Hazard pictogram(s)



Signal word Warning

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s) Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

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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.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501

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

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
64-17-5	<16	ethanol
2687-96-9	<1	1-lauryl-2-pyrrolidone
Not Available	70-90	Ingredients determined not to be hazardous
Not Available		including
7732-18-5		water
Legend:	Classified by Chemwatch; 2. C Classification drawn from C&L * I	lassification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. EU IOELVs available

SECTION 4 First aid measures

Description of	iii St aic	i iiicasui	63
			lf

this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

Eye 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 or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- ► Transport to hospital, or doctor.

Ingestion

- ► If swallowed do **NOT** induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- ► Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

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

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

- Foam.
- dry chemical powder.
- carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known. Chemwatch: 5495-23 Page 3 of 10 Issue Date: 03/11/2021 Version No: 2.1 Print Date: 08/11/2021

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Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
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. Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes.
HAZCHEM	Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. 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	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by all means available, spillage from entering drains or water courses. Consider evacuation (or protect in place). 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. Contain or absorb spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. 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.

Keep containers securely sealed. ► No smoking, naked lights or ignition sources.

► 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.

SECTION 7 Handling and storage

Other information

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.	Precautions for safe handling	
	Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. 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.

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▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container

- Metal can or drum
- Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.

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

Emergency Limits

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

Ingredient	Original IDLH	Revised IDLH
ethanol	3,300 ppm	Not Available
1-lauryl-2-pyrrolidone	Not Available	Not Available
water	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating Occupational Exposure Band Limit		
1-lauryl-2-pyrrolidone	D > 0.1 to ≤ 1 ppm		
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

MATERIAL DATA

Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. 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 the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)

Appropriate engineering controls

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 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.

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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

- Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- frequency and duration of contact,
- chemical resistance of glove material,
- · glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- Excellent when breakthrough time > 480 min
- Good when breakthrough time > 20 min
- Fair when breakthrough time < 20 min
- Poor when glove material degrades
 For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

 Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Body protection

Hands/feet protection

See Other protection below

Other protection

- Overalls
- P.V.C apron.
- ▶ Barrier cream.
- Skin cleansing cream.
- ► Eye wash unit

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

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

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Material	СРІ
BUTYL	A
NEOPRENE	A
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NITRILE	С
NITRILE+PVC	С

Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	Air-line*	AK-2 P2	AK-PAPR-2 P2 ^
up to 10 x ES	-	AK-3 P2	-
10+ x ES	-	Air-line**	-

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

^ - Full-face

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PE/EVAL/PE	С
PVA	С
PVC	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.

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 $\label{eq:conditional} \mbox{dioxide}(SO2), \ G = \mbox{Agricultural chemicals}, \ K = \mbox{Ammonia}(\mbox{NH3}), \ \mbox{Hg} = \mbox{Mercury}, \ \mbox{NO} = \$ Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

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

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Yellow clear liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	0.97
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	6-9	Decomposition temperature	Not Available
Melting point / freezing point (°C)	<10	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	95-100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. The most common signs of inhalation overexposure to ethanol, in animals, include ataxia, incoordination and drowsiness for those surviving narcosis. The narcotic dose for rats, after 2 hours of exposure, is 19260 ppm.		
	Ü	of the material may be damaging to the health of the individual. The material may be damaging to the health of the individual. The material may be damaging to the health of the individual.	
Ingestion	Blood concentration:	Effects:	
	<1.5 g/l	Mild: Impaired visual acuity, coordination and reaction time, emotional lability	

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	1.5-3.0 g/l bl B	ossible diplopia, flushing, tachyca	with impaired objective performance in standardised tests. ardia, sweating and incontinence. achypnoea may develop in cases of metabollic acidosis, hypoglycaemia and coma.	
	3-5 g/l R in C	evere: Cold clammy skin, hypoth trial fibrillation and atrioventricula espiratory depression may occur pneumonitis and pulmonary oed onvulsions due to severe hypogly cute hepatitis may develop.	r block have been reported. , respiratory failure may follow serious intoxication, aspiration of vomitus may re ema.	sult
Skin Contact	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. The material may accentuate any pre-existing dermatitis condition 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	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur. Direct contact of the eye with ethanol may cause immediate stinging and burning with reflex closure of the lid and tearing, transient injury of the corneal epithelium and hyperaemia of the conjunctiva. Foreign-body type discomfort may persist for up to 2 days but healing is usually spontaneous and complete.			
Chronic	biochemical systems. Long-term exposure to eth Repeated ingestion of eth	nanol may result in progressive liveral and by pregnant women may ac	pational exposure may produce cumulative health effects involving organs or ver damage with fibrosis or may exacerbate liver injury caused by other agents. the developing foetus, producing e	
	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid,	pear immediately after consumpt	clude mental and physical retardation, learning disturbances, motor and langua nked to the development of Type I hypersensitivities in a small number of indivicion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The ca	dual
Coil Defender AC Filter	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid,	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1).	nked to the development of Type I hypersensitivities in a small number of indivicion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The ca	dual
	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.G	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1).	nked to the development of Type I hypersensitivities in a small number of individion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The cagy, 26, 1089-1091, 1996	dual
Coil Defender AC Filter	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1).	nked to the development of Type I hypersensitivities in a small number of individion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The cargy, 26, 1089-1091, 1996 IRRITATION	dual
Coil Defender AC Filter	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Aller	nked to the development of Type I hypersensitivities in a small number of individion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The carry, 26, 1089-1091, 1996 IRRITATION Not Available	dual
Coil Defender AC Filter	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Aller 7100 mg/kg ^[1]	nked to the development of Type I hypersensitivities in a small number of indivicion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The cargy, 26, 1089-1091, 1996 IRRITATION Not Available IRRITATION	dual
Coil Defender AC Filter	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.G. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1]	nked to the development of Type I hypersensitivities in a small number of individion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The cargy, 26, 1089-1091, 1996 IRRITATION Not Available IRRITATION Eye (rabbit): 500 mg SEVERE	dual
Coil Defender AC Filter Treatment	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6-	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1]	nked to the development of Type I hypersensitivities in a small number of indivicion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The cargy, 26, 1089-1091, 1996 IRRITATION Not Available IRRITATION Eye (rabbit): 500 mg SEVERE Eye (rabbit): 100mg/24hr-moderate Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 20 mg/24hr-moderate	dual
Coil Defender AC Filter Treatment	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6-	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1]	IRRITATION Seye (rabbit): 500 mg SEVERE Eye (rabbit): 100mg/24hr-moderate Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 20 mg/24hr-moderate Skin (rabbit): 400 mg (open)-mild	dual
Coil Defender AC Filter Treatment	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6-	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1]	nked to the development of Type I hypersensitivities in a small number of indivicion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The cargy, 26, 1089-1091, 1996 IRRITATION Not Available IRRITATION Eye (rabbit): 500 mg SEVERE Eye (rabbit): 100mg/24hr-moderate Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 20 mg/24hr-moderate	dual
Coil Defender AC Filter Treatment	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6-	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1]	IRRITATION Seye (rabbit): 500 mg SEVERE Eye (rabbit): 100mg/24hr-moderate Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 20 mg/24hr-moderate Skin (rabbit): 400 mg (open)-mild	dua
Coil Defender AC Filter Treatment	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6- Oral(Rat) LD50; 7060 m	in alcoholic beverages) may be li pear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1] 4000 ppm4h ^[2] ng/kg ^[2]	IRRITATION IRRITATION Eye (rabbit): 500 mg SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (not irritating) ^[1]	dua
Coil Defender AC Filter Treatment	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6- Oral(Rat) LD50; 7060 m	in alcoholic beverages) may be lipear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1] 4000 ppm4h ^[2] ng/kg ^[2]	IRRITATION Eye (rabbit): 100 mg/24hr-moderate Eye: adverse effect observed (irritating)[1] Skin: roa adverse effect observed (not irritating)[1] IRRITATION IRRITATION IRRITATION Eye (rabbit): 500 mg SEVERE Eye (rabbit): 100 mg/24hr-moderate Eye: adverse effect observed (irritating)[1] Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (not irritating)[1]	dual
Coil Defender AC Filter Treatment	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6 Oral(Rat) LD50; 7060 m TOXICITY Dermal (rabbit) LD50: >	in alcoholic beverages) may be lipear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1] 4000 ppm4h ^[2] ng/kg ^[2]	IRRITATION Eye (rabbit): 100 mg (pen)-mild Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye (rabbit): 100 mg moderate	dual
Coil Defender AC Filter Treatment ethanol	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6 Oral(Rat) LD50; 7060 m TOXICITY Dermal (rabbit) LD50: >	in alcoholic beverages) may be lipear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1] 4000 ppm4h ^[2] ng/kg ^[2]	nked to the development of Type I hypersensitivities in a small number of individion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The cargy, 26, 1089-1091, 1996 IRRITATION Not Available IRRITATION Eye (rabbit): 500 mg SEVERE Eye (rabbit): 100mg/24hr-moderate Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye (rabbit): 100 mg moderate Eye: adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (irritating) ^[1] Skin: specification (irritating) ^[1]	dual
Coil Defender AC Filter Treatment ethanol	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6 Oral(Rat) LD50; 7060 m TOXICITY Dermal (rabbit) LD50: >	in alcoholic beverages) may be lipear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1] 4000 ppm4h ^[2] ng/kg ^[2]	IRRITATION Eye (rabbit): 20 mg/24hr-moderate Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye (rabbit): 100 mg moderate Eye (rabbit): 500 mg SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (irritating) ^[1] IRRITATION Eye (rabbit): 100 mg moderate Eye: adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: specific to describe (irritating) [1] Skin: specific to observed (irritating) [1]	dual
Coil Defender AC Filter Treatment ethanol	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6 Oral(Rat) LD50; 7060 m TOXICITY Dermal (rabbit) LD50: >	in alcoholic beverages) may be lipear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1] 4000 ppm4h ^[2] ng/kg ^[2]	IRRITATION Eye (rabbit): 20 mg/24hr-moderate Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (irritating)[1] IRRITATION Eye (rabbit): 100 mg moderate Eye (rabbit): 100 mg moderate Eye (rabbit): 500 mg SEVERE Eye: adverse effect observed (irritating)[1] Skin (rabbit): 20 mg/24hr-moderate Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (irritating)[1] Skin: no adverse effect observed (irritating)[1] Skin: no adverse effect observed (irritating)[1] Skin: adverse effect observed (irritating)[1] Skin: adverse effect observed (irritating)[1] Skin (rabbit): 500 mg SEVERE Skin (rabbit): 500 mg SEVERE	dual
Coil Defender AC Filter Treatment ethanol	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6 Oral(Rat) LD50; 7060 m TOXICITY Dermal (rabbit) LD50: >	in alcoholic beverages) may be lipear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1] 4000 ppm4h ^[2] ng/kg ^[2]	IRRITATION Eye (rabbit): 20 mg/24hr-moderate Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (not irritating) ^[1] IRRITATION Eye (rabbit): 100 mg moderate Eye (rabbit): 500 mg SEVERE Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (irritating) ^[1] IRRITATION Eye (rabbit): 100 mg moderate Eye: adverse effect observed (not irritating) ^[1] Skin: no adverse effect observed (irritating) ^[1] Skin: no adverse effect observed (not irritating) ^[1] Skin: specific to describe (irritating) [1] Skin: specific to observed (irritating) [1]	dual
Coil Defender AC Filter Treatment ethanol	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6 Oral(Rat) LD50; 7060 m TOXICITY Dermal (rabbit) LD50: >	in alcoholic beverages) may be lipear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1] 4000 ppm4h ^[2] ng/kg ^[2]	IRRITATION Eye (rabbit): 20 mg/24hr-moderate Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (irritating)[1] IRRITATION Eye (rabbit): 100 mg moderate Eye (rabbit): 100 mg moderate Eye (rabbit): 500 mg SEVERE Eye: adverse effect observed (irritating)[1] Skin (rabbit): 20 mg/24hr-moderate Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (irritating)[1] Skin: no adverse effect observed (irritating)[1] Skin: no adverse effect observed (irritating)[1] Skin: adverse effect observed (irritating)[1] Skin: adverse effect observed (irritating)[1] Skin (rabbit): 500 mg SEVERE Skin (rabbit): 500 mg SEVERE	dual
Coil Defender AC Filter Treatment ethanol	Consumption of ethanol (Symptoms, which may ap agent may be acetic acid, (1) Boehncke W.H., & H.C. TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: 1 Inhalation(Rat) LC50; 6 Oral(Rat) LD50; 7060 m TOXICITY Dermal (rabbit) LD50: > Oral(Rat) LD50; 2050 m	in alcoholic beverages) may be lipear immediately after consumpt a metabolite (1). Sall, Clinical & Experimental Allers 7100 mg/kg ^[1] 4000 ppm4h ^[2] 1g/kg ^[2] 2000 mg/kg ^[1]	inked to the development of Type I hypersensitivities in a small number of individion, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The cargy, 26, 1089-1091, 1996 IRRITATION Not Available IRRITATION Eye (rabbit): 500 mg SEVERE Eye (rabbit): 100mg/24hr-moderate Eye: adverse effect observed (irritating)[1] Skin (rabbit): 20 mg/24hr-moderate Skin (rabbit): 400 mg (open)-mild Skin: no adverse effect observed (not irritating)[1] IRRITATION Eye (rabbit): 100 mg moderate Eye (rabbit): moderate irritation Eye: adverse effect observed (irritating)[1] Skin (rabbit): 500 mg SEVERE Skin (rabbit): severely irritating Skin: adverse effect observed (corrosive)[1] without washout; mildly irritating	dual

ETHANOL

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 the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

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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. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may produce severe 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) thickening of the epidermis.

Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Prolonged contact is unlikely, given the severity of response, but repeated exposures may produce severe ulceration.

1-LAURYL-2-PYRROLIDONE

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe 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

Severely irritating to rabbit skin (as sold). Mildly irritating to rabbit skin (2% suspension). Sensitization: Evidence of delayed contact hypersensitivity in 5/20 animals with inconclusive response seen in 2 animals (Guinea pig Maximization Study) Human RIPT: Non-sensitizing Mutagenicity: Non-mutagenic (Mouse micronucleus) Non-mutagenic (Ames Salmonella/Microsome Reverse Mutation Assay) Other Information: 28 Day Oral Toxicity (rat): NOEL= 100 mg/kg/day. Comedogenicity: Expected to be non-Comedogenic (humans). Rabbit comedogenicity assay score = >2.0. Other Information Photoallergy: Non-photoallergenic Phototoxicity: Non-phototoxic.

WATER

No significant acute toxicological data identified in literature search.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	✓	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	X

Legend:

— Data either not available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

Toxicity

0.110.6	Endpoint	Test Duration (hr)	Species	Value	Source
Coil Defender AC Filter Treatment	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50(ECx)	96h	Algae or other aquatic plants	<0.001mg/L	4
athanal	EC50	72h	Algae or other aquatic plants	275mg/l	2
ethanol	LC50	96h	Fish	>100mg/l	2
	EC50	48h	Crustacea	>79mg/L	4
	EC50	96h	Algae or other aquatic plants	<0.001mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	9.27mg/l	2
	LC50	96h	Fish	~17.8mg/l	2
1-lauryl-2-pyrrolidone	EC50	48h	Crustacea	0.139mg/l	2
	NOEC(ECx)	Not Available	Fish	0.015mg/l	2
	EC50	96h	Algae or other aquatic plants	0.053mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Availab

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

Persistence: Water/Soil Ingredient Persistence: Air

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Ingredient	Persistence: Water/Soil	Persistence: Air
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
1-lauryl-2-pyrrolidone	LOW	LOW
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation	
ethanol	LOW (LogKOW = -0.31)	
1-lauryl-2-pyrrolidone	MEDIUM (LogKOW = 4.2)	

Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
1-lauryl-2-pyrrolidone	LOW (KOC = 18430)

SECTION 13 Disposal considerations

Waste treatment methods

- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Product / Packaging disposal
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ▶ Where in doubt contact the responsible authority. Consult State Land Waste Authority for disposal.
- Bury or incinerate residue at an approved site
- Recycle containers if possible, or dispose of in an authorised landfill.

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

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

Product name	Group
ethanol	Not Available
1-lauryl-2-pyrrolidone	Not Available
water	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
ethanol	Not Available
1-lauryl-2-pyrrolidone	Not Available
water	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

Australian Inventory of Industrial Chemicals (AIIC)

1-lauryl-2-pyrrolidone 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

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

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National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (ethanol; 1-lauryl-2-pyrrolidone; water)
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	03/11/2021
Initial Date	03/11/2021

SDS Version Summary

Version	Date of Update	Sections Updated
2.1	03/11/2021	Personal Protection (other)

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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