

Section 1 - Identification of the Material and Supplier

COILDEFENDER

UNIT 2, 481-483 Victoria Street
Wetherill Park, NSW 2164
Australia

Phone: +61 438 882 060 (office hours)

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Emergency: +61 438 882 262 (any time)

Chemical nature: Antimicrobial Filter Treatment
Trade Name: Coil Defender Filter Treatment Aerosol
Product Code: CD008
Product Use: Suitable for use as a protective and antimicrobial coating for all A/C applications + substrates. In-situ, including OEM application
Creation Date: April 2017
This version issued: 12th April 2017 and is valid for 5 years from this date.
Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature: This product is classified as: N, Dangerous to the environment. F, Flammable. Hazardous according to the criteria of SWA.

Risk Phrases: Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria. R10, R66, R67, R51/53. Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

Safety Phrases: S16, S23, S36, S51, S61, S62, S24/25. Keep away from sources of ignition - No smoking. Do not breathe vapours or spray mists. Wear suitable protective clothing. Use only in well ventilated areas. Avoid release to the environment. Refer to special instructions/Safety Data Sheets. If swallowed, do not induce vomiting: seek medical advice immediately and show this SDS. Avoid contact with skin and eyes.

SUSMP Classification: None allocated.

ADG Classification: Class 2.1

UN Numb UN 1950 (Aerosols, Flammable)



GHS Signal word: WARNING

HAZARD STATEMENT: H226: Flammable liquid and vapour.
AUH066: Repeated exposure may cause skin dryness or cracking.
H336: May cause drowsiness or dizziness.

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PREVENTION	H411: Toxic to aquatic life with long lasting effects.
	P102: Keep out of reach of children.
	P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
	P233: Keep container tightly closed.
	P262: Do not get in eyes, on skin, or on clothing.
RESPONSE	P273: Avoid release to the environment.
	P281: Use personal protective equipment as required.
	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
	P391: Collect spillage.
STORAGE	P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used.
	P402+P404: Store in a dry place. Store in a closed container.
	P403+P235: Store in a well-ventilated place. Keep cool.
DISPOSAL	P501: If they cannot be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

Emergency Overview

Physical Description & Colour:	Clear to light tinted alcoholic liquid
Odour:	Mild, characteristic odour.
Major Health Hazards:	Flammable liquid

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Pigments	various	0.05-0.1%	not set	not set
Ethanol	64-17-5	50-70%	not set	not set
Denaturant	67-56-1	<10%	not set	not set
Hydrophobic additive	8015-86-9	<3.0%	not set	not set
Synthetic polymer resins (Proprietary Blend)	9003-01-4	0-20%	not set	not set
Propellant mixture (Class 2.2)	7727-37-9	0-20%	not set	not set
Water	7732-18-5	1-10%	not set	not set
Other nonhazardous ingredients	Various	to 100%	not set	not set
Silver Ion Food Grade antimicrobial complex	3380-34-5	< 0.5%	not set	not set
Antimicrobial complex UN:1760	N/A	<0.1%	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other nonhazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation:	First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Skin Contact:	Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

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- Eye Contact:** No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.
- Ingestion:** If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Section 5 - Fire Fighting Measures

- Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.
- Extinguishing Media:** Flammable liquid
- Fire Fighting:** Flammable liquid – as for flammable liquids
- Flash point:** If a significant quantity of this product is involved in a fire, call the fire brigade.
- Upper Flammability Limit:** 15.0°C
- Lower Flammability Limit:** Not available
- Auto ignition temperature:** Not available
- Flammability Class:** Flammable liquid

Section 6 - Accidental Release Measures

- Accidental release:** Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as minimum, protective glasses and, preferably, goggles. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).
- Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

- Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
- Storage:** Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits: **TWA (mg/m³)** **STEL (mg/m³)**

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

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Ventilation:	This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.
Eye Protection:	Eye protection such as protective glasses or goggles is recommended when this product is being used.
Skin Protection:	The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.
Protective Material Types:	We suggest that protective clothing be made from the following materials: rubber, PVC.
Respirator:	Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear to lightly tinted alcoholic liquid
Odour:	Mild, characteristic odour.
Boiling Point:	Not available
Freezing/Melting Point:	No specific data. Liquid at normal temperatures.
Volatiles:	Water, ethanol component.
Vapour Pressure:	< 58.1 mbar
Vapour Density:	As for water.
Specific Gravity:	< 1.000g/cm ³ (Water =1)
Water Solubility:	Fully water miscible.
pH:	Not Available
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	As for water
Co-eff Oil/water Distribution:	No data
Auto-ignition temp:	Not available

Section 10 - Stability and Reactivity

Reactivity:	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid:	Keep containers tightly closed.
Incompatibilities:	Oxidising agents.
Fire Decomposition:	This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Polymerisation:	This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Local Effects:	
Target Organs:	There is no data to hand indicating any particular target organs.

Potential Health Effects

Inhalation:	Short Term Exposure: Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation. Long Term Exposure: No data for health effects associated with long term inhalation.
Skin Contact:	Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be mildly irritating, but is unlikely to cause anything more than mild discomfort which should disappear once contact ceases. Long Term Exposure: No data for health effects associated with long term skin exposure.
Eye Contact:	Short Term Exposure: This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

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Ingestion:	Long Term Exposure: No data for health effects associated with long term eye exposure.
	Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.
Carcinogen Status:	Long Term Exposure: No data for health effects associated with long term ingestion.
	SWA: No significant ingredient is classified as carcinogenic by SWA.
	NTP: No significant ingredient is classified as carcinogenic by NTP.
	IARC: No significant ingredient is classified as carcinogenic by IARC.

Classification of Hazardous Ingredients

Ingredient	Risk Phrases
No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.	

Section 12 - Ecological Information

Insufficient data to be sure of status

Section 13 - Disposal Considerations

Disposal:	Containers should be emptied as completely as practical before disposal. If possible, recycle product and containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.
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Section 14 - Transport Information

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

UN Number:	UN1950 (Aerosols, Flammable)
Hazchem Code	2YE
Hazard Class	2.1
US DOT Information:	Proper shipping name: Aerosols, Flammable
IATA:	Proper shipping name: Aerosols, Flammable
IMO:	Proper shipping name: Aerosols, Flammable
Dangerous Goods Class:	Class 2.1 (Aerosols, Flammable)
Packaging Group:	Not Applicable
Packaging Method:	P001, IBC03, LP01
Special Provisions:	163, 223
Limited quantities:	ADG 7 specifies a Limited Quantity value of 5 L for this class of product

2.1 (Flammable Gases where flammable liquids and flammable gases are both in bulk), 2.3 (Toxic Gases), 4.2 (Spontaneously Combustible Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), 6 (Toxic Substances, except Flammable Liquid is nitromethane), and 7 (Radioactive Substances). They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.1 (Flammable Gases except where the Flammable Liquids and Flammable Gases are in bulk), 2.2 (Non-Flammable Non-Toxic Gases), 4.1 (Flammable Solids), 4.3 (Dangerous When Wet Substances), 6 (Toxic Substances, where Flammable Liquid is nitromethane), 8 (Corrosive Substances), 9 (Miscellaneous Dangerous Goods), Foodstuffs or foodstuff empties.

Section 15 - Regulatory Information

AICS:	All of the significant ingredients in this formulation are compliant with NICNAS regulations.
Cas Number	None Allocated/Mixture
Hazchem code	2[Y]E

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Poisons Schedule Classification	Not Hazardous according to criteria of NOHSC
DG	According to criteria of the Australian DG Code
Other Information	Coil Defender-Treatment is classified as a DG and Flammable liquid

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2016)

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