



### 1. Identification of Substance and Company

<b>Product Name:</b>	Armor All Membrane Air Freshener Wild Berry
<b>Other Names:</b>	None
<b>HSNO Approval:</b>	HSR002574, Food Additives and Fragrance Materials (Combustible) Group Standard 2006
<b>UN Number:</b>	Not Applicable
<b>Packaging group:</b>	Not Applicable
<b>Hazchem Code:</b>	1[T] (recommended)
<b>Uses:</b>	Car Air Freshener

#### Company Details

<b>Company:</b>	<b>Spectrum Brands New Zealand Limited</b>
<b>Address:</b>	Level one, 8 Hugo Johnson Drive, Penrose, 1061, Auckland, New Zealand
<b>Telephone Number:</b>	+64-9-571-7700
<b>Emergency Telephone Number:</b>	0800 764 766

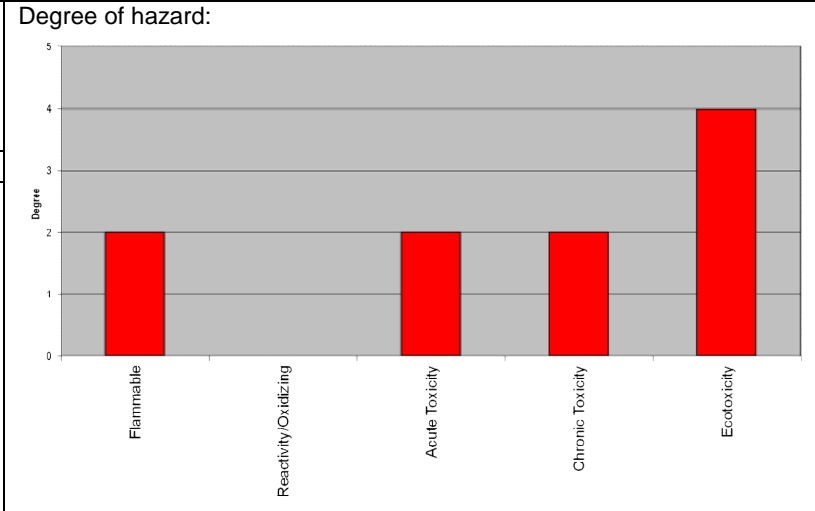
### 2. Hazard Identification

#### Hazard Classifications

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002574, Food Additives and Fragrance Materials (Combustible) Group Standard 2006 ), and is classified as follows:

Classes: 3.1D, 6.3A, 6.4A, 6.5B, 9.1B

Symbols:  
WARNING



#### Other classifications

There are no other Classifications that are known to apply.

#### Hazard and Precautionary Statements

<b>Hazard Phrases</b>	Combustible liquid. Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
<b>Precautionary Phrases</b>	Keep out of reach of children. Read label before use. Keep away from flames and hot surfaces. No smoking. Wear protective gloves and eye/face protection.* Wash hands thoroughly after handling.* Wear eye/face protection.* Avoid breathing dust/fume/gas/mist/vapours/spray*. Contaminated work clothing should not be allowed out of the workplace.* Wear protective gloves/eye protection/face protection*. Avoid release to the environment. Collect spillage. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep cool.
	* - these precautionary statements apply with working with or handling this substance in bulk.
	Further precautionary statements can be found in Section 4 – First Aid.Further precautionary statements can be found in Section 4 – First Aid.



### 3. Composition/Information on Ingredients

Component	CAS No	Proportion
2-t-Butylcyclohexyl acetate	88-41-5	5-20%
Limonene	5989-27-5	2.5-10%
2,6-Dimethylheptan-2-ol	13254-34-7	0-10%
4-t-Butylcyclohexyl acetate	32210-23-4	2.5-10%
Hexyl Acetate	142-92-7	2.5-10%
3A,4,5,6,7,7A-Hexahydro-4,7-methano-1H-indenyl propionate	68912-13-0	0-2.5%
3A,4,5,6,7,7A-Hexahydro-4,7-methano-1H-indenyl acetate	54830-99-8	0-10%
3-Methylbutyl butyrate	106-27-4	0-10%
Isopentyl acetate	123-92-2	0-10%
Ethyl 3,5,5-trimethylhexanoate	67707-75-9	0-10%
2,6-Di-t-butyl-p-cresol	128-37-0	0.25-2.5%
Geranyl Acetate	105-87-3	0-2.5%
1-(2,6,6-Trimethyl-2-Cyclohexen-1-yl)-2-buten-1-one	547378-68-4	0.25-1%
3-P-Cumenyl-2-Methylpropionaldehyde	103-95-7	0.1-1%
Dimethylcyclohex-3-ene-1,1-carbaldehyde (Isomer Unspecified)	27939-60-2	0.1-1.0%
Undecan-4-olide	104-67-6	0-2.5%
Cyclooct-4-en-1-yl methyl carbonate	87731-18-8	0.1-1%
Benzyl salicylate	118-58-1	0.1-1.0%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

### 4. First Aid

#### General Information

You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (24 hr emergency service). If medical advice is needed, have product container or label at hand.

**Recommended first aid facilities** Ready access to running water is required. Accessible eyewash is recommended.

#### Exposure

<b>Swallowed</b>	IF SWALLOWED: Do NOT induce vomiting. Wash mouth with water and give a glass of water to drink. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.
<b>Inhaled</b>	No first aid measures normally required. However, if vapours or mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

#### Advice to Doctor

Treat symptomatically.

### 5. Firefighting Measures

<b>Fire and explosion hazards</b>	This is a combustible liquid. This product has the potential to cause fire or to create an additional hazard during a fire.
<b>Suitable Extinguishing Substances</b>	Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.
<b>Unsuitable extinguishing substances</b>	None known.
<b>Protective Equipment</b>	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
<b>Danger caused by material, its combustion products or gases produced</b>	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
<b>Hazchem Code</b>	1T (recommended, no HAZCHEM signage necessary)

### 6. Accidental Release Measures

<b>Containment</b>	If greater than 1000L is stored, secondary containment is required. Emergency plans to manage any potential spills must be in place. Prevent spillage from spreading or entering soil, waterways or drains.
<b>Emergency procedures</b>	The container size generally will prevent major spills. If a major spill (e.g. >100L) occurs: Stop leak if safe/necessary; Isolate area (ensure no persons inside spill area). Shut off all possible sources of ignition. Collect spill – see below; Transfer to container for disposal Dispose of according to guidelines below (Section 13)



# Armor All Membrane Air Freshener

## Wild Berry

Safety Data Sheet

<b>Clean-up method</b>	Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
<b>Disposal</b>	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
<b>Precautions</b>	Wear protective footwear, overalls, gloves and safety glasses to clean-up large spills. Can be slippery on floors, especially when wet.

### 7. Handling and Storage

<b>Storage</b>	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.
<b>Handling</b>	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.

### 8. Exposure Controls/Personal Protection Equipment

#### Workplace Exposure Standards



A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 10mg/m<sup>3</sup> for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Standards (2016).	Ingredient	WES- TWA	WES- STEL
	No Ingredient listed	No data	No data

#### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

#### Personal Protective Equipment

<b>Eyes</b>		Product is irritating to eyes – glasses are not required for normal use - use eye protection when using this product in bulk.
<b>Skin</b>		If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves, e.g nitrile gloves.
<b>Respiratory</b>		A respirator when airborne concentrations approach the WES (section 8). If using a respirator with an organic vapour cartridge. Ensure that the cartridges are correct for the potential air contamination and are in good working order.

### 9. Physical and Chemical Properties

<b>Appearance:</b>	clear red liquid
<b>Odour</b>	wildberry odour
<b>pH</b>	no data
<b>Vapour pressure</b>	no data
<b>Refractive Index</b>	1.4358
<b>Viscosity</b>	no data
<b>Specific gravity</b>	0.9490 g/cm <sup>3</sup>
<b>Boiling point</b>	no data
<b>Volatile materials</b>	no data
<b>Softening/melting point</b>	no data
<b>Solubility</b>	no data
<b>Flash point</b>	64°C
<b>Upper &amp; lower flammable limits</b>	no data
<b>Auto ignition temperature</b>	no data
<b>Corrosiveness</b>	non corrosive



### 10. Stability and Reactivity

<b>Stability</b>	Stable - unlikely to react/decompose under normal conditions
<b>Conditions to be avoided</b>	Combustible substance. Keep away from sources of ignition at all times. Containers should be kept closed when not in use in order to avoid contamination.
<b>Incompatible materials</b>	strong oxidising agents, strong acids, strong bases
<b>Hazardous decomposition products</b>	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.
<b>Hazardous reactions</b>	No specific hazards.

### 11. Toxicological Information

#### Summary

No data available on the mixture. This mixture has not been subjected to toxicological testing as a whole. The following toxicity is estimated from individual ingredients:  
 IF ON SKIN: may cause mild irritation of the skin. Some sensitised individuals may experience allergic skin reactions if exposed.  
 IF IN EYES: may cause irritation.

#### Supporting Data

<b>Acute:</b>	<b>Oral</b>	The calculated LD <sub>50</sub> is > 5000mg/kg. Data considered: considered includes: Limonene: 4400mg/kg (rat), 4-t-Butylcyclohexyl acetate 3370 mg/kg bw (rat), 2,6-Di-t-butyl-p-cresol, 650 mg/kg (mouse)
	<b>Dermal</b>	No evidence of dermal toxicity.
	<b>Inhaled</b>	No evidence of inhalation toxicity.
	<b>Eye</b>	This mixture is considered to be an eye irritant, because some of the ingredients present are considered to be eye irritants (limonene, 2,6-dimethylheptan-2-ol))
	<b>Skin</b>	This mixture is considered to be a skin irritant, because some of the ingredients present are considered to be skin irritants (limonene, 2,6-dimethylheptan-2-ol)
<b>Chronic:</b>	<b>Sensitisation:</b>	This product is considered a contact sensitiser. There are several ingredients present in >0.1% that are considered contact sensitisers: 4-t-Butylcyclohexyl acetate, Limonene, 2,6-Dimethylheptan-2-ol, 1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-Buten-1-one, 3-P-Cumenyl-2-methylpropionaldehyde, Dimethylcyclohex-3-ene-1,1-Carbaldehyde, Cyclooct-4-en-1-yl methyl carbonate, benzyl salicylate.
	<b>Mutagenicity:</b>	No evidence of mutagenicity for the mixture or any of its components (>0.1%)
	<b>Carcinogenicity:</b>	No evidence of carcinogenicity for the mixture.
	<b>Reproductive / Developmental:</b>	Insufficient evidence of reproductive toxicity for the mixture or any of its components (>0.1%). No evidence of developmental toxicity for the mixture or any of its components (>0.1%)
	<b>Systemic:</b>	No evidence of systemic toxicity for the mixture or any of its components (>0.1%)

<b>Aggravation of Existing Conditions:</b>	None known.
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### 12. Ecological Data

#### Summary

This product is toxic in the aquatic environment with long lasting effects, but is not considered ecotoxic to land-based animals. Do not allow this product to enter drains or waterways.

#### Supporting Data

<b>Aquatic</b>	Several ingredients (>25%) are considered to be toxic in the aquatic environment with long lasting effects. These include: 4-t-Butylcyclohexyl acetate, 2-t-Butylcyclohexyl acetate Limonene, 2,6-Di-t-butyl-p-cresol, hexyl acetate, 3A,4,5,6,7,7A-Hexahydro-4,7-methano-1H-indenyl propionate, 3A,4,5,6,7,7A-hexahydro-4,7-methano-1H-indenyl acetate, ethyl 3,5,5-trimethylhexanoate, geranyl acetate..
<b>Bioaccumulation</b>	No data on mixture.
<b>Degradability</b>	No data on mixture.
<b>Soil</b>	No evidence of soil toxicity.
<b>Terrestrial Vertebrate</b>	No evidence of toxicity towards terrestrial vertebrates.
<b>Terrestrial Invertebrate</b>	No evidence of terrestrial invertebrate toxicity for the mixture or any of its components (>0.1%)
<b>Biocidal</b>	The product is not designed as a biocide.



### 13. Disposal Considerations

<b>Restrictions</b>	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Dispose of residue and solutions that cannot be reused to sewer. If this is not possible dilute with water (at least 5 times as much water) and drain.
<b>Contaminated Packaging</b>	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

### 14. Transport Information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). There are no specific restrictions for this product (not a dangerous good).

<b>UN Number</b>	Not applicable	<b>Proper Shipping Name</b>	Not applicable
<b>Class(es)</b>	Not applicable	<b>Packing group</b>	Not applicable
<b>Precautions</b>	Not applicable	<b>HAZCHEM code</b>	1[T] (not a dangerous good)

### 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002574, Food Additives and Fragrance Materials (Combustible) Group Standard 2006 .

*Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)*

**Key workplace requirements are:**

<b>SDS</b>	To be available within 10 minutes in workplaces storing any quantity.
<b>Labelling</b>	No removal of labels and/or decanting of product into other containers can occur.
<b>Emergency plan</b>	Required if >1000L is stored.
<b>Approved handler</b>	Not required.
<b>Tracking</b>	Not required.
<b>Bunding &amp; secondary containment</b>	Required if >1000L is stored.
<b>Signage</b>	Required if >1000L is stored.
<b>Location test certificate</b>	Not required.
<b>Flammable zone</b>	Not required.
<b>Fire extinguisher</b>	If >500L present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

*Other Legislation*

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.



### 16. Other Information

Abbreviations	
<b>Approval Code</b>	Approval HSR002574, Food Additives and Fragrance Materials (Combustible) Group Standard 2006 Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>Ceiling</b>	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
<b>Controls Matrix</b>	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Authority (New Zealand)
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>MSDS/SDS</b>	Material Safety Data Sheet (or Safety Data Sheet)
<b>PES</b>	Prescribed Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO (including group standards).
<b>STEL</b>	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.
References	
<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
<b>WES 2016</b>	The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .
<b>WES 2002</b>	Workplace Exposure Standards published by the Occupational Safety and Health Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES referred to under the Group Standard (HSNO approval) and may constitute a PES.
<b>Other References</b>	Suppliers SDS
Review	
<b>Date</b>	<b>Reason for Review</b>
September 2015	New SDS
November 2016	Change of logo and company name, HSE to HSAW, formatting.
Disclaimer	
<p>This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications, are based on our experience, SDS Guidelines and international classifications. This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email <a href="mailto:info@datachem.co.nz">info@datachem.co.nz</a> or phone: (09) 940 30 80.</p>	