



ARMOR ALL Wash & Wax Foam Spray Aerosol 500g

Safety Data Sheet

1. Identification of Substance and Company

Product Name:	ARMOR ALL Wash & Wax Foam Spray Aerosol 500g
Other Names:	none assigned
HSNO Approval:	HSR002515, Aerosols (Flammable) Group Standard 2006
UN Number:	1950
UN description	AEROSOLS
DG class	2.1
Packaging group:	NA
Hazchem Code:	2YE
Uses:	Cleaning preparation

Company Details

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

2. Hazard Identification

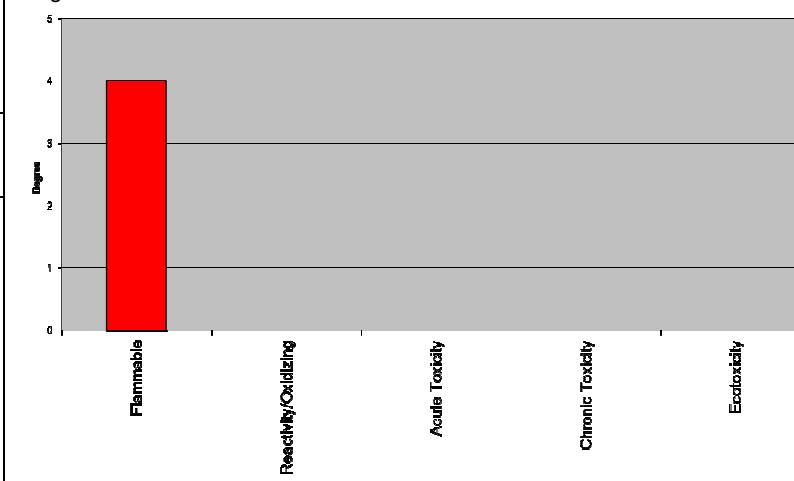
Hazard Classifications

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002515, Aerosols (Flammable) Group Standard 2006), and is classified as follows:

Classes:	2.1.2A Flammable aerosol
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Symbols:
DANGER

Degree of Hazard:



Other Classifications

There are no other Classifications that are known to apply.

Hazard and Precautionary Statements

Hazard Statements	H223 - Flammable aerosol. H280 – Contains gas under pressure, may explode if heated.
Precautionary Statements:	P103 - Read label before use. . P210 - Keep away from ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Pressurized container: Do not pierce or burn, even after use.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Hydrocarbon propellants	74-98-6 & 106-97-8	3-10%
Ingredients not contributing to HSNO classes	proprietary	1-10%
Water	7732-18-5	balance

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



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4. First Aid	
<i>General Information</i>	
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 (0800 POISON) (24 hr emergency service).	
Recommended first aid facilities: Ready access to running water is recommended.	
<i>Exposure</i>	
Swallowed:	Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor if any symptoms occur.
Eye contact:	If product gets in eyes, wash material from them with running water for several minutes. If symptoms persist, seek medical advice.
Skin contact:	Wash with plenty of soap and water. If discomfort is felt: get medical advice/attention.
Inhaled:	Generally, inhalation of spray is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.
<i>Advice to Doctor</i>	
Treat symptomatically	
5. Firefighting Measures	
Fire and Explosion Hazards	This product is an aerosol, containing <45% flammable ingredients. This product has the potential to create an additional hazard during a fire. Buildup of explosive mixture is possible. Containers may rupture in a fire. Remove undamaged cans if safe to do so. Leaking or burning cans should be extinguished only when absolutely necessary. Spontaneous or explosive re-ignition may occur. Extinguish fire in surrounding area.
Suitable Extinguishing Substances	Carbon dioxide, extinguishing powder, foam, fog sprays.
Unsuitable Extinguishing Substances	Unknown.
Protective Equipment	No special measures are required.
Products of combustion	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.
Hazchem Code	2YE
6. Accidental Release Measures	
Containment	If greater than 3000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. Prevent product from entering environment.
Emergency procedures	In the event of a large spillage (>100 cans) alert the fire brigade to location and give brief description of hazard. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain spill. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. If spray or gas escapes, increase ventilation.
Clean-up method	Note: flammable vapours are possible. Collect undamaged cans and recycle. Collect damaged cans and seal in properly labelled containers or drums for disposal.
Disposal	Collect recoverable material into labelled containers for recycling or salvage. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
Precautions	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Be aware of fire risk – avoid sources of ignition.
7. Storage and Handling	
Storage	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. Keep out of direct sunlight. Avoid contact with incompatible substances as listed in Section 10. Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents.
Handling	Replace cap when not in use. The container is pressurised. Do not puncture or incinerate can even when empty. Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.



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8. Exposure Controls / Personal Protective 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 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Standards (2016)	Ingredient	WES-TWA	WES-STEL
	Liquefied petroleum gas	1000ppm 1800mg/m ³	data unavailable

Engineering Controls

In industrial situations, concentration values below the WES value must be maintained. 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

Eyes	Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes or contact with spray are possible.
Skin	Avoid repeated or prolonged skin contact. If irritation does occur, discontinue use. In an industrial situation, consider using impervious gloves, such as nitrile.
Respiratory	A respirator when airborne concentrations approach the WES (section 8). Use a respirator with a organic vapour filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance	Slightly yellow, opaque liquid in an aerosol container
Odour	characteristic odour
pH	8.75-9.75
Vapour Pressure	2.73kPa @ 20°C (water vapour pressure)
Boiling Point	~100°C at 100kPa
Volatile Materials	~0°C
Softening/Melting Point	liquid at normal temperature.
Solubility	completely soluble in water
Specific Gravity or Density	no data
Viscosity	no data
Flash Point	-104 to -60°C for propellant, dispensed product will not burn
Danger of Explosion	aerosol can rupture
Auto-Ignition Temperature	does not burn
Upper & Lower Flammable Limits	NA
Corrosiveness	non corrosive

10. Stability & Reactivity

Stability	Stable
Conditions to be avoided	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames. Keep away from sources of sparks or ignition. Any electrical equipment in the area of this product should be flame proofed.
Incompatible Materials	Aerosols are incompatible with explosives, flammable liquids, flammable solids, oxidising materials.
Hazardous Decomposition Products	Carbon dioxide, carbon monoxide.
Hazardous Reactions	none known

11. Toxicological Information

Summary

No adverse effects are expected to occur.

Supporting Data

Acute	Oral	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is >5,000 mg/kg.
	Dermal	No evidence of dermal toxicity.
	Inhaled	No evidence of acute inhalation toxicity.
	Eye	The mixture is not considered to be an eye irritant.
	Skin	The mixture is not considered to be a skin irritant



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Chronic	Sensitisation	No ingredient present at concentrations > 0.1% is considered a sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive / Developmental	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
	Systemic	Inhalation of high concentration of hydrocarbon vapours may affect the central nervous system.
	Aggravation of Existing Conditions	None known.

12. Ecological Data

Summary

This mixture is not considered to be ecotoxic.

Supporting Data

Aquatic	No ingredients present is considered to be ecotoxic towards aquatic organisms.
Bioaccumulation	No data available for the mixture.
Degradability	No data
Soil	No evidence of soil toxicity.
Terrestrial vertebrate	This mixture is not considered ecotoxic to terrestrial vertebrates. See acute toxicity.
Terrestrial invertebrate	No evidence of toxicity towards terrestrial invertebrates.
Biocidal	no data

13. Disposal Considerations

Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
Disposal Method	Disposal of this product must comply with the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance contained in the aerosol must be treated and therefore rendered non-hazardous before discharge to the environment.
Contaminated Packaging	Empty aerosol cans can be sent to landfill or similar. Do not incinerate aerosol cans.

14. Transport Information

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a hazardous substance for transport.

UN Number	1950	Proper Shipping Name	AEROSOLS
Class(es)	2.1	Packing Group	NA
Precautions	Aerosol	HAZCHEM Code	2YE

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002515, Aerosols (Flammable) Group Standard 2006.

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

Key workplace requirements are:	
SDS	To be available within 10 minutes in workplaces storing any quantity.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	Required if > 3000L is stored (aerosol).
Certified handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Required if > 3000L is stored (aerosol).
Signage	Required if > 3000L is stored (aerosol).
Location test certificate	Required if > 3000L is stored (aerosol).
Flammable zone	Required if > 3000L is stored (aerosol).
Fire extinguisher	Required if > 3000L is stored (aerosol).
<p>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.</p>	

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.



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16. Other Information	
<i>Abbreviations</i>	
Approval Code	Approval HSR002515, Aerosols (Flammable) Group Standard 2006 Controls, EPA. www.epa.govt.nz
CAS Number	Unique Chemical Abstracts Service Registry Number
Ceiling	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
Controls Matrix	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
EC50	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
EPA	Environmental Protection Authority (New Zealand)
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD50	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC50	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
MSDS/SDS	Material Safety Data Sheet (or Safety Data Sheet)
PES	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).
STEL	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
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	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.
<i>References</i>	
Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
WES 2016	The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz .
WES 2002	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.
Other References:	Chemidplus.
<i>Review</i>	
Date	Reason for Review
May 2017	NA – new SDS
November 2017	Review of section 9
<i>Disclaimer</i>	
<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, EPA 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 info@datachem.co.nz or phone: (09) 940 30 80.</p>	