



Armor All Heavy Duty Car Wash

Safety Data Sheet

1. Identification of Substance and Company

Product Name:	Armor All Heavy Duty Car Wash
Other Names:	None
HSNO Approval:	HSR002530 - Cleaning Products (Subsidiary Hazard) Group Standard 2006
UN Number:	Not Applicable
Packaging group:	Not Applicable
Hazchem Code:	1[T] (recommended)
Uses:	Car care 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 has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2006), and is classified as follows:	Degree of hazard:										
Classes 6.3A, 6.4A, 6.5B, 9.1D	<table><tr><td>Flammability</td><td>Acute Toxicity</td><td>Chronic Toxicity</td><td>Ecotoxicity</td><td>Reactivity</td></tr><tr><td>0</td><td>1</td><td>1</td><td>1</td><td>0</td></tr></table>	Flammability	Acute Toxicity	Chronic Toxicity	Ecotoxicity	Reactivity	0	1	1	1	0
Flammability		Acute Toxicity	Chronic Toxicity	Ecotoxicity	Reactivity						
0	1	1	1	0							
Symbols: WARNING											

Other classifications

There are no other Classifications that are known to apply.

Hazard and Precautionary Statements

Hazard Statements	Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause long lasting harmful effects to aquatic life.
Precautionary Statements	Keep out of reach of children. Read label before use. Wash hands thoroughly after handling. Wear protective gloves/protective clothing. Wear eye/face protection. Avoid release to the environment. Collect spillage. Avoid breathing vapours. Contaminated work clothing should not be allowed out of the workplace. Further precautionary statements can be found in Section 4 – First Aid.

3. Composition/Information on Ingredients

Component	CAS No	Proportion
Surfactants including alkylbenzene sulfonic acid	Proprietary	1-10 %
Dipentene (dl-Limonene)	138-86-3	1 – 3%
Additives	Confidential	1 – 5%
Water	7732-18-5	to 100%

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



Armor All Heavy Duty Car Wash



Safety Data Sheet

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 (24 hr emergency service).			
Recommended first aid facilities	Ready access to running water is required. Accessible eyewash is recommended.		
<i>Exposure</i>			
Swallowed	IF SWALLOWED: Do NOT induce vomiting. Wash mouth with water and give a glass of water to drink. In doubt, contact the National Poisons Centre or a Doctor.		
Eye contact	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.		
Skin contact	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.		
Inhaled	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.		
<i>Advice to Doctor</i>			
Treat symptomatically.			
5. Firefighting Measures			
Fire and explosion hazards	There are no specific risks for fire/explosion for this chemical. It is predominantly water and non-flammable.		
Suitable Extinguishing Substances	This product does not burn. Use extinguishing media suited to the materials that are burning.		
Unsuitable extinguishing substances	None known.		
Protective Equipment	Safety boots, non-flammable overalls, gloves, hat and preferably goggles.		
Danger caused by material, its combustion products or gases produced	Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. Likely to decompose only after heating to dryness followed by further strong heating. Product of decomposition: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke, oxides of sulfur and water.		
Hazchem Code	1T (recommended, no HAZCHEM signage necessary)		
6. Accidental Release Measures			
Containment	If greater than 10000L 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.		
Emergency procedures	The bottle size generally will prevent major spills. If a spill occurs: Stop leak if safe/necessary; Isolate area (ensure no persons inside spill area) Collect spill – see below; Transfer to container for disposal Dispose of according to guidelines below (Section 13)		
Clean-up method	This product is not considered flammable. It can be collected by absorption onto material such as sand, vermiculite or other suitable absorbent material. Small spills do not require any special clean up method. Larger spills (e.g., greater than 200 L) should be prevented from entering stormwater drains or waterways. If a significant quantity of material enters drains, advise emergency services.		
Disposal	Sweep up and shovel or 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.		
Precautions	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			
Storage	Avoid storage of toxic 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.		
Handling	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			
<i>Workplace Exposure Standards</i>			
A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 10mg/m ³ for dusts and mists when limits have not otherwise been established.			
NZ Workplace Exposure Standards (2016).	Ingredient	WES- TWA	WES- STEL
	Hydroxide	2 mg/m ³ (ceiling)	No data
	Limonene	No data	No data



Armor All Heavy Duty Car Wash

Safety Data Sheet

<i>Engineering Controls</i>	
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.	
<i>Personal Protective Equipment</i>	
Eyes	Product is mildly irritating to eyes – glasses are not required for normal use - use eye protection when using this product in bulk.
	
Skin	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.
	
Respiratory	A respirator when airborne concentrations approach the WES (section 8). If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.
9. Physical and Chemical Properties	
Appearance:	Green viscous liquid.
Odour	Characteristic odour.
pH	7.7-8.0 (specification)
Vapour pressure	Water vapour pressure
Vapour density	No data
Viscosity	RVT 2/20 @20°C: 450-900cPs
Specific gravity	1.02 @ 20°C
Boiling point	Approximately 100°C at 100 kPa
Volatile materials	Water component
Softening/melting point	Approximately 0°C
Solubility	Completely soluble in water
Specific gravity or density	No data
Flash point	Not applicable (does not burn)
Upper & lower flammable limits	Not applicable (does not burn)
Corrosiveness	Not corrosive
10. Stability and Reactivity	
Stability	Stable - unlikely to react/decompose under normal conditions
Conditions to be avoided	Mixing with other cleaning chemicals should be avoided.
Incompatible materials	No particular incompatibilities
Hazardous decomposition products	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Oxides of sulfur. Water.
Hazardous reactions	No specific hazards.
11. Toxicological Information	
<i>Summary</i>	
Limited data available on the mixture. This product is not considered toxic if swallowed, absorbed through the skin or inhaled. It is considered a skin and eye irritant. There are no long-term effects associated with exposure by any route.	
<i>Supporting Data</i>	
Acute:	
Oral	The calculated LD ₅₀ is >5000mg/kg. Data considered: Alkylbenzene sulfonic acid: 650mg/kg (rat).
Dermal	No evidence of dermal toxicity.
Inhaled	No evidence of inhalation toxicity.
Eye	The pH of the mixture is 7 – 8.5. This mixture is considered to be an eye irritant, because of the presence of the surfactant (e.g. alkenebenzene sulfonic acid).
Skin	The pH of the mixture is 7 – 8.5. This mixture is considered to be skin irritant, because of the presence of the surfactant (e.g. alkenebenzene sulfonic acid).
Chronic:	
Sensitisation:	This product is a contact sensitiser. It contains >0.1% of alkylbenzene sulfonic acid and dipentene, which is a known sensitiser.
Mutagenicity:	No evidence of mutagenicity for the mixture or any of its components (>0.1%)
Carcinogenicity:	No evidence of carcinogenicity for the mixture.
Reproductive / Developmental:	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%)
Systemic:	No evidence of systemic toxicity for the mixture or any of its components (>0.1%)
Aggravation of Existing Conditions:	None known.



12. Ecological Data

Summary

Limited data available on the mixture. This product may be harmful in the aquatic environment, but is not considered ecotoxic to land-based animals. So not allow this product to enter drains or waterways.

Supporting Data

Aquatic	Limited data available on the product. Two of the ingredients are considered to be ecotoxic to aquatic animals in concentrated form surfactant: 0.1 mg/l (96hr, brown trout), 1-10mg/L (48hr, Daphnia magna). Dipentene 0.545 mg/l (96hr, fish), 0.048mg/L (48 hr, Crustacean), 0.719 mg/L (72hr, Algal).
Bioaccumulation	Not considered bioaccumulative,
Degradability	Considered rapidly degradable.
Soil	No evidence of soil toxicity.
Terrestrial Vertebrate	Animal-based acute toxicity data indicates low toxicity for terrestrial vertebrates.
Terrestrial Invertebrate	No evidence of terrestrial invertebrate toxicity for the mixture or any of its components (>0.1%)
Biocidal	The product is not designed as a biocide.

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	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.
Contaminated Packaging	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).

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

15. Regulatory Information

This product has been approved under the Hazardous Substances and New Organisms Act HSR002530 Cleaning Products (Subsidiary Hazard) 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 storing >1000L.
Approved handler and tracking	Not required.
Bunding and secondary containment	Required if storing >1000L.
Signage	Required if storing >10000L.
Location test certificate	Not required.
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.



Armor All Heavy Duty Car Wash

Safety Data Sheet

16. Other Information	
<i>Abbreviations</i>	
Approval Code	Approval HSR002530 Cleaning Products (Subsidiary Hazard) 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	Suppliers SDS
<i>Review</i>	
Date	Reason for Review
March 2005	New SDS
November 2010	Change of Risk Phrases and Safety Phrases to Hazard and Precautionary Statements
February 2012	Change of company name, review of classification, review WES data, change ERMA to EPA
February 2015	review of classification, DOL to Worksafe. Review of tox and ecotox section.
November 2016	Change of logo and company name, HSE to HSAW, formatting.
<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, 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 info@datachem.co.nz or phone: (09) 940 30 80.</p>	