



## 1. Identification of Substance and Company

<b>Product Name:</b>	ARMOR ALL Rain repellent
<b>Other Names:</b>	none assigned
<b>HSNO Approval:</b>	HSR002528, Cleaning Products (Flammable) Group Standard 2006
<b>UN Number:</b>	1219
<b>UN description</b>	ISOPROPANOL (ISOPROPYL ALCOHOL)
<b>DG class</b>	3
<b>Packaging group:</b>	II
<b>Hazchem Code:</b>	2YE
<b>Uses:</b>	Repels water from automotive screens

### 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

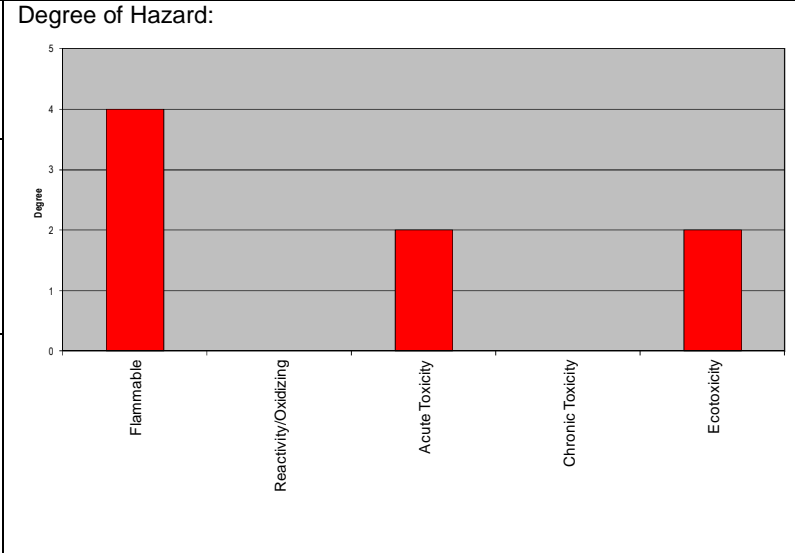
### Hazard Classifications

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002528, Cleaning Products (Flammable) Group Standard 2006), and is classified as follows:

Classes:

3.1B	Highly flammable liquid and vapour.
6.1E (oral)	May be harmful if swallowed
6.3A	Causes skin irritation.
6.4A	Causes eye irritation.
9.1D	May cause long lasting harmful effects to aquatic life.

Symbols:



### Other Classifications

There are no other Classifications that are known to apply.

### Hazard and Precautionary Statements

<b>Hazard Statements</b>	Highly flammable liquid and vapour. May be harmful if swallowed Causes skin irritation. Causes eye irritation. Harmful to aquatic life.
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<b>Precautionary Statements:</b>	Read label before use. Keep out of reach of children. Keep away from ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment.* Use explosion-proof electrical equipment.* Use only non-sparking tools.* Take precautionary measures against static discharge.* Wear protective gloves/eye/face protection. Wash hands thoroughly after handling. Avoid release to the environment. * These precautionary statements apply when a flammable zone is required to be established. See Section 15 – Regulatory Information Further precautionary statements can be found in Section 4 – First Aid.
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### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Isopropanol	67-63-0	>80%
Silicon additive	Proprietary	1-10%
Sulphuric acid	7664-93-9	<0.5%

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 (0800 POISON) (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>	Do NOT induce vomiting. 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 occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.
<b>Inhaled:</b>	Generally, inhalation of fumes 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.

#### Advice to Doctor

Treat symptomatically

### 5. Firefighting Measures

<b>Fire and Explosion Hazards</b>	Vapours may form an explosive mixture in air which can be ignited by many sources such as pilot lights, open flames, electrical motors, switches and static electricity. Vapour is heavier than air and may flow along surfaces to distant ignition source and flashback.
<b>Suitable Extinguishing Substances</b>	Alcohol foam, carbon dioxide or dry chemical.
<b>Unsuitable Extinguishing Substances</b>	Unknown.
<b>Protective Equipment</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>Products of combustion</b>	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
<b>Hazchem Code</b>	2YE

### 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>	In the event of spillage 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 using sand, earth or vermiculite. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).
<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 equipment to prevent skin and eye contamination and the inhalation of vapour. Work up wind or increase ventilation.



## 7. Storage and Handling

<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. Location test certificates must be available if storing greater than 250 L in closed containers of ≤ 5 L capacity), or greater than 50L (in use) of flammables with 3.1B classification. Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents.
<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. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

## 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 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
	Isopropanol	400ppm, 983mg/m <sup>3</sup>	500ppm, 1230mg/m <sup>3</sup>
	Sulphuric acid	1mg/m <sup>3</sup> (6.7A)	data unavailable

### 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>		Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.
<b>Skin</b>		Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Nitrile gloves are recommended. Neoprene and Latex gloves provide fair to limited protection and can be used for short term use. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands after handling.
<b>Respiratory</b>		A respirator with an organic vapour cartridge when airborne concentrations approach the WES (section 8) should be used. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Supplied Air respirator should be considered in the event of excessive exposure (e.g. higher than WES).

### WES Additional Information

Not applicable

## 9. Physical & Chemical Properties

<b>Appearance</b>	Clear, colourless liquid
<b>Odour</b>	alcohol odour
<b>pH</b>	no data
<b>Vapour Pressure</b>	~6kPa at 25°C
<b>Vapour density</b>	>1
<b>Boiling Point</b>	~85°C at 100kPa
<b>Volatile Materials</b>	isopropanol component
<b>Softening/Melting Point</b>	liquid at normal temperatures.
<b>Solubility</b>	completely soluble in water
<b>Specific Gravity or Density</b>	~0.8
<b>Flash Point</b>	12°C (isopropanol)
<b>Danger of Explosion</b>	not explosive
<b>Auto-Ignition Temperature</b>	399°C
<b>Upper &amp; Lower Flammable Limits</b>	2% - 13%
<b>Corrosiveness</b>	non corrosive



10. Stability & Reactivity			
<b>Stability</b>	Stable		
<b>Conditions to be avoided</b>	Flammable substance. Keep away from sources of ignition at all times. Containers should be kept closed in order to avoid contamination.		
<b>Incompatible Materials</b>	Strong oxidising agents.		
<b>Hazardous Decomposition Products</b>	Carbon dioxide, carbon monoxide, oxides of silicon and sulphur.		
<b>Hazardous Reactions</b>	None known		
11. Toxicological Information			
<i>Summary</i>			
IF SWALLOWED: may be harmful. Symptoms include lethargy, sore throat and stomach, signs of intoxication similar to ethanol. Vomiting, nausea and diarrhoea.			
IF IN EYES: may cause irritation, with tearing and blurred vision.			
IF ON SKIN: may cause mild irritation. Prolonged exposure may cause drying of the skin with cracking.			
IF INHALED: high concentrations or prolonged exposure may have similar effect as if swallowed, with dizziness and drowsiness.			
<i>Supporting Data</i>			
<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is between 2000 and 5,000 mg/kg. Data considered includes: Isopropanol 3600 mg/kg (mouse), Sulphuric acid 2140 mg/kg (rat).	
	<b>Dermal</b>	No evidence of dermal toxicity.	
	<b>Inhaled</b>	No evidence of acute inhalation toxicity.	
	<b>Eye</b>	The mixture is considered to be an eye irritant. Isopropanol is considered an eye irritant.	
	<b>Skin</b>	The mixture is considered to be a skin irritant. Isopropanol is considered a mild skin irritant.	
<b>Chronic</b>	<b>Sensitisation</b>	No ingredient present at concentrations > 0.1% is considered a sensitizer.	
	<b>Mutagenicity</b>	No ingredient present at concentrations > 0.1% is considered a mutagen.	
	<b>Carcinogenicity</b>	No ingredient present at concentrations > 0.1% is considered a carcinogen.	
	<b>Reproductive / Developmental</b>	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.	
	<b>Systemic</b>	No ingredient present at concentrations > 1% is considered a target organ toxicant.	
	<b>Aggravation of Existing Conditions</b>	Open wounds and cuts.	
12. Ecological Data			
<i>Summary</i>			
This mixture may be harmful towards aquatic organisms. Silicone and siloxanes are not rapidly degradable.			
<i>Supporting Data</i>			
<b>Aquatic</b>	No EC <sub>50</sub> values available for the mixture. Silicones and siloxanes are not rapidly degradable and hence trigger 9.1D classification under HSNO.		
<b>Bioaccumulation</b>	No data		
<b>Degradability</b>	Not rapidly degradable.		
<b>Soil</b>	No evidence of soil toxicity.		
<b>Terrestrial vertebrate</b>	Not considered toxicity towards terrestrial vertebrates (see acute toxicity)		
<b>Terrestrial invertebrate</b>	No evidence of toxicity towards terrestrial invertebrates.		
<b>Biocidal</b>	no data		
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>	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 must be treated and therefore rendered non-hazardous before discharge to the environment.		
<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). Considered a hazardous substance for transport.			
<b>UN Number</b>	1219	<b>Proper Shipping Name</b>	ISOPROPANOL (ISOPROPYL ALCOHOL)
<b>Class(es)</b>	3	<b>Packing Group</b>	II
<b>Precautions</b>	Flammable liquid	<b>HAZCHEM Code</b>	2YE



## 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002528, Cleaning Products (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 <i>any quantity</i> .
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	Required if > 1000L is stored.
Approved handler	Required if > 500L is handled or stored.
Tracking	Not required.
Bunding & secondary containment	Required if > 1000L is stored.
Signage	Required if > 250L is stored in any one location. (NA)
Location test certificate	Required if >250L (closed containers) or 50L (open) is stored in any one location.
Flammable zone	Must be established if > 100 L (closed containers), 25 L (decanting), 5 L (open occasionally), 1 L (open containers in continuous use) is stored in any one location.
Fire extinguisher	If > 250 L 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 HSR002528, Cleaning Products (Flammable) 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>EC50</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>LD50</b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC50</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.



# ARMOR ALL Rain repellent

Safety Data Sheet

<i>References</i>	
<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>	Not applicable.
<i>Review</i>	
<b>Date</b>	<b>Reason for Review</b>
February 2014	New MSDS
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, 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 <a href="mailto:info@datachem.co.nz">info@datachem.co.nz</a> or phone: <b>(09) 940 30 80</b>.</p>	
