



1. Identification of Substance and Company

Product Name: Armor All Glass Cleaner
Other Names: None
HSNO Approval: HSR002530 - Cleaning Products (Subsidiary Hazard) Group Standard 2006
Proper Shipping name Not allocated
DG class NA
UN Number: NA
Packaging group: Not Applicable
Hazchem Code: 1T (recommended)
Uses: Auto Glass (window) cleaner

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

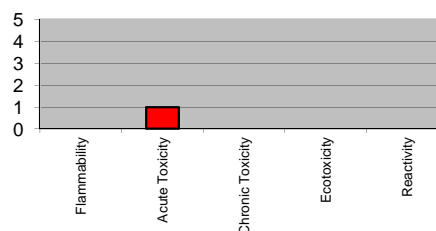
This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002530 - Cleaning Products (Subsidiary Hazard) Group Standard 2006), and is classified as follows:

Classes 6.3B, 6.4A

Symbols:
WARNING



Degree of hazard:



Other classifications

There are no other Classifications that are known to apply.

Hazard and Precautionary Statements

Hazard Statements Causes mild skin irritation.
Causes eye irritation.

Precautionary Statements Keep out of reach of children.
Read label before use.
Wear protective gloves/eye protection/face protection.
Wash hands thoroughly after handling.
Wear protective gloves/protective clothing.

Further precautionary statements can be found in Section 4 – First Aid.

3. Composition/Information on Ingredients

Component	CAS/ Identification	Conc (%)
Propylene glycol t-butyl ether	57018-52-7	1 - 5%
Isopropanol	67-63-0	1 - 5%
Other ingredients not contributing to classification	confidential	<1
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.



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 required. Accessible eyewash is recommended.		
<i>Exposure</i>			
Swallowed	IF SWALLOWED: Do NOT induce vomiting. Give a glass of water to drink. If concerned, contact 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 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, seek medical advice.		
<i>Advice to Doctor</i>			
Treat symptomatically.			
5. Firefighting Measures			
Fire and explosion hazards	Non flammable or explosive,		
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	When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat and preferably, goggles. Call the fire brigade.		
Danger caused by material, its combustion products or gases produced	This product is unlikely to decompose at temperatures normally achieved in a fire. Likely to decompose only after heating to dryness followed by further strong heating.		
Hazchem Code	1[T] (note: not a dangerous good)		
6. Accidental Release Measures			
Containment	There is no current legal requirement for secondary containment of this product. Prevent product from entering environment.		
Emergency procedures	The packaging of the product generally will prevent major spills. Stop spill if it is safe, isolate area (ensure no persons inside spill area). Transfer to container for disposal according to guidelines below (Section 13).		
Clean-up method	This product is not considered flammable or ecotoxic. Small spills do not require any special clean up method. Larger spills should be mopped up and collected.		
Precautions	Wear protective footwear, overalls, gloves and safety glasses to clean-up large spills.		
7. Handling and Storage			
Storage	Avoid storage of toxic substances with food. Store out of reach of children. 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 (OSH, 2016).	Ingredient	WES- TWA	WES- STEL
	Isopropanol	400ppm, 983mg/m ³	500ppm, 1230mg/m ³
<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	Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear.
Skin	Protective gloves are not normally necessary when using this product. However, it is always prudent to wear gloves.
Respiratory	It is usually safe to not use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred.
9. Physical and Chemical Properties	
Appearance	Clear liquid.
Odour	Mild odour
pH	approx. 7
Vapour pressure	approx. water vapour pressure
Vapour density	No data
Boiling point	approx. 100°C
Freezing/melting point	No data
Solubility	Easily soluble in water
Specific gravity or density	approx. 1.00 at 25°C
Flash point	Does not burn
Upper & lower flammable limits	Not available
Auto ignition temperature	Not available
Corrosiveness	non corrosive
10. Stability and Reactivity	
Stability	Stable under normal use and storage conditions and is unlikely to decompose spontaneously
Conditions to be avoided	Keep from extreme heat and open flames
Incompatible materials	No data
Hazardous decomposition products	No data
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	This mixture is not considered to be harmful if swallowed. . Calculated LD ₅₀ : >5,000 mg kg ⁻¹ (based on Propylene glycol t-butyl ether LD ₅₀ : 3700mg kg ⁻¹ and Isopropanol LD ₅₀ : 5045mg kg ⁻¹ for Oral (rat)).
Dermal	No evidence of dermal toxicity.
Inhaled	No evidence of inhalation toxicity.
Eye	Two of the ingredients are considered strong eye irritants in concentrated form (Propylene glycol t-butyl ether, isopropanol). Applying HSNO mixing rules, mixtures with total concentrations of corrosives at 1 to 3% should be considered eye irritants. The pH of the mixture is approx. 7.
Skin	Two of the ingredients are considered irritating to the skin in more concentrated form. The mixture is over 90% water, but it is considered possibly mildly irritating to the skin (based on HSNO mixture rules).
Chronic:	
Sensitisation:	No evidence of sensitisation for the mixture or any of its components (>0.1%)
Mutagenicity:	No evidence of mutagenicity for the mixture or any of its components (>0.1%)
Carcinogenicity:	No evidence of carcinogenicity for the mixture. Isopropyl alcohol is classed Group 3 "Not classifiable as to carcinogenicity – evidence of carcinogenicity may be inadequate or limited in animal testing" by IARC.
Reproductive / Developmental:	No evidence of reproductive toxicity for the mixture or any of its components (>0.1%).
Systemic:	No evidence of developmental toxicity for the mixture or any of its components (>0.1%)
Aggravation of Existing Conditions:	None known.

Not fl



12. Ecological Data

<i>Summary</i>	
This product is unlikely to be considered ecotoxic in water or to land-based animals.	
<i>Supporting Data</i>	
Aquatic	Limited data on the mixture.
Bioaccumulation	Not considered bioaccumulative (>90% water, no evidence for any ingredient)
Degradability	Considered rapidly degradable (>90% water, no evidence of persistence for any ingredient)
Soil	Not considered toxic in soil.
Terrestrial Vertebrate	Animal-based acute toxicity data indicates low toxicity for terrestrial vertebrates. See acute toxicity.
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

There are no specific restrictions for this product (not a dangerous good).			
UN Number	NA	Proper Shipping Name	NA
Class(es)	NA	Packing group	NA
Precautions	NA	HAZCHEM code	1T (recommended)

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 >50L.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	Not required.
Approved handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Not required.
Signage	Not required.
Location Test certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	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.



16. Other Information

Abbreviations	
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.
References	
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
Review	
Date	Reason for Review
March 2005	New SDS
November 2010	Change of Risk Phrases and Safety Phrases to Hazard and Precautionary Statements
March 2012	Change of company name, review of classification, review WES data, change ERMA to EPA
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, 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>	