

MAC ARANDELL SURFACE SANITISER – FRAGRANCE FREE

Public Health Surface Sanitiser

1. IDENTIFICATION OF THE MATERIAL AND THE MANUFACTURER

Product Name ARANDELL SURFACE SANITISER 500ml

Fragrances: Fragrance Free

Supplier Name Arandee Ltd

Address 108 Rockfield Road, Penrose, Auckland 1061, New Zealand

Telephone +64 (9) 579 5139

Emergency National Poisons Centre -24 hours Australia 13 11 26

New Zealand 0800 POISON

0800 764 766

E-mail <u>sales@arandee.co.nz</u>

Web Site http://www.arandee.co.nz

Synonym(s) MAC Arandell; MAC Arandell Surface Sanitiser

Use(s) A powerful surface sanitiser that leaves surfaces hygienically clean (kills up to 99.9% of

common germs & viruses). The unique formulation disinfects and conditions surfaces. Suitable for use on hard or soft surfaces. Designed for use in commercial and industrial settings, public

health and government institutions. May be used as a no rinse sanitiser in some areas.

2. HAZARDS IDENTIFICATION

AUSTRALIA: CLASSIFIED AS HAZARDOUS ACCORDING TO THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) INLCUDING WORK, HEALTH AND SAFETY REGULATIONS, AUSTRALIA

NEW ZEALAND: THIS SUBSTANCE IS HAZARDOUS ACCORDING TO THE EPA HZARDOUS SUBSTANCES (CLASSIFICATION) NOTICE 2020

Hazard pictograms

Signal Word



DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Aerosol Category 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: May burst if heated.
Prevention Code	P102	Keep out of reach of children.
	P103	Read label before use.
	P210	Keep away from heat, hot surfaces, sparks open flames and
		Other sources of ignition. No smoking.
	P211	Do not spray on an open flame or other ignition source.
	P251	Do not pierce or burn, even after use.
Response Code	P101	If medical advice is needed, have product container or label at
		hand.
Storage Code	P410	Protect from sunlight.
	P412	Do not expose to temperatures exceeding 50°C.
Disposal Code	P501	Dispose of in accordance with relevant local legislation.



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3. HAZARDS IDENTIFICATION COMPOSITION OF INGREDIENTS

Name	% Weight	CAS Number
ETHANOL SDA3A BS 506:1963	70-75%	64-17-5
HYDROCARBON PROPELLANT BLEND	60-80%	68476-85-7
OTHER INGREDIENTS	1-5%	

4. FIRST AID MEASURES

Eye Hold eyelids apart and flush continuously with water. Continue until advised to stop by the

Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.

Inhalation Leave area of exposure immediately. If irritation persists, seek medical attention.

Skin Gently flush affected areas with water. Seek medical attention, if irritation persists.

Ingestion

For advice, contact a Poisons Information Centre on 0800 764 766 (0800 POISON) or +64 9 579 5139 (New Zealand) or a doctor. If swallowed, DO NOT induce vomiting, as ingestion is

considered unlikely, due to the product form.

Advice to Doctor Treat symptomatically.

First Aid Facilities Eye wash facilities should be provided.

carbon dioxide

carbon monoxide

5. FIRE FIGHTING MEASURES

Flammability

Highly flammable. Vapours may form explosive mixtures with air. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition temperatures. When handling a significant spillage, eliminate all ignition sources, including cigarettes, open flames, spark producing switches, heaters, naked lights, mobile phones, etc. Aerosol cans may explode when heated above 50 °C.

Special Exposure Hazards Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous Thermal Decomposition

Decomposition products may include the following materials:

Products
Special Protective
Equipment for Fire-

Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

fighters

Fire and Explosion Highly flammable, explosive vapour. Evacuate area and contact emergency services. Toxic

gases may evolve, when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment, including Self Contained Breathing Apparatus (SCBA), when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Extinguishing Dry agent, carbon dioxide foam, or water fog. Prevent contamination of drains or waterways;

absorb runoff with sand or similar.

HazChem 2YE



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6. ACCIDENTAL RELEASE MEASURES

Small Spill Stop leak without risk. Move containers from spill area. Dilute with water and mop up if water-

soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark proof tools and explosion-proof equipment.

Dispose of via a licensed waste disposal contractor.

Large Spill If large quantities of cans are punctured (bulk), clear area of all unprotected personnel and

ventilate area. Wear splash-proof goggles, leather gloves, coveralls, and boots. Where inhalation risks exist, wear a Type A-Class P1 (Organic vapour and Particulate) respirator. Collect cans and allow to discharge outdoors. Absorb any residues with sand or similar and

place in clean containers for disposal. DO NOT wash away into sewer.

7. HANDLING AND STORAGE

Handling Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal

hygiene, including washing hands before eating. Keep out of the reach of children.

DO NOT puncture aerosol cans or incinerate, even when empty.

Storage Store in a cool, dry well ventilated area, well away from oxidising agents, acids, alkalis, direct

sunlight, heat or ignition sources, or foodstuffs. Ensure containers are adequately labelled, protected from physical damage, and sealed when not in use. Check regularly for leaks or spills.

Large storage areas should have appropriate fire protection.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient Name Exposure Limits

Propane

Ethanol Safe Work Australia (Australia, 8/2005)

TWA: 1880 mg/m³ 8 hour(s).

TWA: 1000 ppm 8 hour(s).

ACGIH TLV (United States, 2/2010)

Butane TWA: 1000 ppm 8 hour(s). Safe Work Australia (Australia, 8/2005).

TWA: 1900 mg/m³ 8 hour(s). TWA: 800 ppm 8 hour(s).

Ethanol NZ OSH (New Zealand, 12/2010)

WES-TWA: 1000 ppm 8 hour(s).

WES-TWA: 1880 mg/m³ 8 hour(s).

ACGIH TLV (United States, 2/2010).

Butane TWA: 1000 ppm 8 hour(s).

NZ OSH (New Zealand, 12/2010). WES-TWA: 800 ppm 8 hour(s). WES-TWA: 1990 mg/m³ 8 hour(s).

VentilationDO NOT directly inhale concentrated vapours. Use in well-ventilated areas. Mechanical

extraction ventilation is recommended for poorly ventilated area. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels

below the recommended exposure standard.

Exposure Standards LIQUIFIED PETROLEUM GAS (LPG) (68476-85-7)

ES-STEL: 400 ppm (1800 mg/m³)



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Personal Protection Equipment

No personal protective equipment is required, normally. When an inhalation risk exists wear a Type A-Class P1 (Organic vapour and Particulate) Respirator. With prolonged use, wear PVC or rubber gloves and splash-proof goggles or safety glasses.





9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	COLOURLESS LIQUID	Vapour Pressure	213 KPa
			(ROOM TEMPERATURE)
Odour	CHARACTERISTIC	Upper Explosion Limit	9.5%v/v
	SOLVENT/ETHANOL		
Flammability	EXTREMELY	Lower Explosion Limit	1.5% v/v
	FLAMMABLE		
Flash Point	>-60 °C	Partition Coefficient	NOT AVAILABLE
Boiling Point	<35 °C	Autoignition Temperature	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Decomposition Temperature	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE	Viscosity	NOT AVAILABLE
рН	NOT AVAILABLE	Explosive Properties	NOT AVAILABLE
Vapour Density	>1	Oxidising Properties	NOT AVAILABLE
		1	

10. STABILITY AND REACTIVITY

Reactivity	Avoid reaction with oxidising agents				
Chemical stability	Stable under normal storage conditions				
Possibility of Hazardous reactions	Polymerisation is not expected to occur				
Conditions to avoid	Avoid heat, sparks, open flames and all sources of ignition				
Incompatible materials	Incompatible with oxidising agents, acids, alkalis, heat and ignition				
Decomposition Products	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition temperatures.				

11. TOXICOLOGICAL INFORMATION

Acute Toxicitiy	Result	Species		Dose	Exposure		
Ethanol	LC50 Inhalation Vapour	Rat		124700 mg/m ³	4 hour	4 hours	
	LD50 Oral	Rat		7 g/kg -			
Butane	LC50 Inhalation Vapour	Rat		658000 mg/m ³	4 hours		
	'	•		•	•		
Irritation/Corrosion	Result	Species	Score	Exposure		Observation	
Ethanol	Eyes – Moderate irritant	Rabbit	-	0.066666667 m	0.066666667 minutes -		
				100 milligrams			
	Skin – Moderate irritant	Rabbit	-	24 hours 20 -		-	
				milligrams			

Health Hazard Summary

General population. The exposure of the general population is expected to be low and is not

likely to present a hazard when it is used as recommended.



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Occupational exposure. With reasonable work practices, hygiene measures and

Safety precautions, is unlikely to be an occupational hazard.

Asphyxiant narcotic. This product may only present a hazard with direct eye contact, prolonged

and repeated skin contact or with vapour/gas inhalation at high levels.

Eye Low irritant. Contact may result in lacrimation, pain, redness, and conjunctivitis. Prolonged

contact may result in corneal burns, with possible permanent damage.

Inhalation Low to moderate Irritant, narcotic, asphyxiant. Over exposure may result in upper respiratory

tract irritation, nausea, and headache. At high levels; dizziness, breathing difficulties, and at very high levels, anaesthesia, cardiac arrhythmias, pulmonary oedema and unconsciousness.

Skin Low irritant. Prolonged contact may result in irritation, redness, rash, dermatitis, and

sensitisation.

Ingestion Exposure considered unlikely, due to product form as an aerosol. Under normal conditions of

use, ingestion is considered a highly unlikely, exposure route.

12. ECOLOGICAL INFORMATION

Ecotoxicity No known significant effects or critical hazards.

Other effects No known significant effects or critical hazards.

Environment Environmental effects of the compound are extremely unlikely, due to packaging in the form of

an aerosol. Ensure appropriate measures are taken to prevent this product from entering the

environment through wastewater.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

For small amounts, absorb contents with sand or similar and dispose of to an approved landfill site. DO NOT puncture or incinerate aerosol cans. Contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant, local legislation.

14. TRANSPORT INFORMATION

	THIS PRODUCT IS CLASSIFIED AS A DANGEROUS GOODS FOR TRANSPORT IN NZ; NZS 5433:2020 AND SNZ HB 5433:2021					
	Shipping Name	UN No	Packing Group	DG Class	Subsidiary Risk(s)	EPG
LAND TRANSPORT	FLAMMABLE AEROSOL	1950	None Allocated	2.1	None Allocated	
SEA TRANSPORT (IMDG/IMO)	FLAMMABLE AEROSOL	1950	III	2.1	None Allocated	
AIR TRANSPORT IATA/ICAO)	FLAMMABLE AEROSOL	1950	None Allocated	2.1	None Allocated	

Special precautions for user

Transport within user's premises: always transport in closed containers that are upreight and secure. Ensure that persons transporting the product know what to do in thre even of an accident or spillage



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Shipping Label



Special Precautions Hazchem code: 2YE

15. REGULATORY INFORMATION

MPI C44 (all animal product including dariry)

NZEPA Approved pursuant to the HSNO Act 1996,

Approval No. HSR002515

Group Standard Flammable Aerosols 2020

Certified Handler No

Location Certificate 3000L (AWC)

Tracking Trigger Quantities Not required.

Signage Trigger Quantities 100L Emergency Response Plan 100L Secondary Containment 100L

16. OTHER INFORMATION

Additional Information ASPHYXIANTS (1): reduce the oxygen concentration by displacement, when present in the atmospheres, in high concentrations. As most simple asphyxiants are odourless, atmospheres deficient in oxygen do not provide adequate sensory warning of danger. Therefore, it is not generally appropriate to recommend an exposure standard for each asphyxiant, but instead warn of the need to maintain oxygen concentrations.

Some asphyxiants may be given an exposure standard, due to their potential for narcotic effects at high concentrations, or an explosion hazard.

Asphyxiants (2)

There is a significant hazard associated with workers entering poorly, ventilated areas (e.g. tanks) where oxygen levels may be deficient. An air supplied breathing apparatus may be required if adequate ventilation is not ensured. Refer to AS/NZS 2865 - Safe Working in a Confined Space.

Respirators

In general, the best practice to avoid exposure is to use engineering controls, such as adequate ventilation, rather than the use of respirators (which should be limited).

If respiratory equipment must be worn, ensure correct respirator selection and training is undertaken. Some respirators may be extremely uncomfortable, when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or

repeated use is necessary.

Abbreviations Mg/m3 - Milligrams per cubic metre

ppm -Parts Per Million

M - moles per litre, a unit of measure of concentration.

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14,

where 0 is highly acidic and 14 is highly alkaline.

TWA/ES - Time Weighted Average or Exposure Standard.

CAS# - Chemical Abstract Service number - uniquely identifies chemical compounds.



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CNS - Central Nervous System NOS - Not Otherwise Specified

IARC - International Agency for Research on Cancer.

Personal Protective Equipment

The recommendations for protective equipment contained within this SDS report are provided as a guide only, when dealing with an abnormal situation. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered, before the final selection of personal protective equipment is made.

Health Effects From Exposure

It should be noted that the effects from excess exposure to this product would depend on several factors, including duration of exposure, quantity involved, effectiveness of control measures used; protective equipment and method of application. Given that, it is impractical to prepare a SDS report, which would encompass all possible scenarios, it is anticipated that users will assess the risks in an emergency and apply appropriate control methods.

Report Status

This report is based upon information provided by ingredient manufacturers, and third party experts. We believe that the information represents the current state of knowledge about safety and handling precautions that are appropriate for this product. Further clarification regarding any aspect of the product should be obtained directly from the Chief Chemist at

While Arandee has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy, or completeness. As far as lawfully possible, Arandee accepts no liability for any loss, injury, or damage (including consequential loss) which may be suffered, or incurred by any person, because of their reliance upon the information contained in this Safety Data Sheet.

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any ability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.