



1. IDENTIFICATION OF THE MATERIAL AND THE MANUFACTURER

Product Name MAC ARANDELL PPE SANITISER & FRESHENER

400 ml Standard Aerosol Spray

Fragrance: Fresh.

Statement of Considered a Hazardous Substance according to the criteria of the New Zealand

Hazard Nature Hazardous Substances, New Organisms legislation.

Classified as a Dangerous Good for transport purposes.

Proper Shipping

AEROSOLS

Name

Supplier Name Arandee Ltd

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Telephone +64 (9) 579 5139 **Fax** +64 (9) 579 7628

Emergency National Poisons Centre -24 hours Australia 13 11 26

New Zealand 0800 POISON

0800 764 766

E-mail sales@arandee.co.nz

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

Synonym(s) MAC Arandell; MAC PPE Sanitiser

Use(s) A powerful antimicrobial sanitiser, which neutralises malodour at a molecular level effectively

destroying odour arising from organic compounds as opposed to masking it with fragrance.

Suitable for use on a wide range of PPE materials and equipment

Approval(s) Ministry for Primary Industries Approved C 102. (all animal product, except dairy)

AsureQuality Approved food/beverage/dairy

2. HAZARDS IDENTIFICATION

AEROSOL - CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA IN THE HS (MIN DEG OF HAZ) REGS 2001 CLASSIFIED AS A DANGEROUS GOOD, UNDER ADG AND NZS 5433

UN Number	1950		Dangerous Goods Risks
DG Class	2.1.2A	2Y	Contains gas under pressure; may explode if heated
			Contains refrigerated gas; may cause cryogenic burns or injury.
HAZARD STATEMENT	-	223	Flammable aerosols
PRECAUTIONARY		P210	Keep away from heat/sparks/open flame/hot surfaces
STATEMENTS		P211	Do not spray on an open flame, or other ignition source.
		P251	Pressurized container. Do not pierce or burn even after use
		P403	Store in a well ventilated place.
		P410	Protect from direct sunlight
		P412	Do not expose to temperatures exceeding 50°C/122°F



3. HAZARDS IDENTIFICATION COMPOSITION OF INGREDIENTS

Ingredient	Concentration	CAS Number
Ethyl Alcohol	<15%	64-17-5
Active & Fragrance – proprietary ingredients	<15%	
0.1% benzalkonium chloride	<1%	8001-54-5
HYDROCARBON PROPELLANT BLEND	<70%	74-98-6
TIDROCARBON PROPELLANT BLEND	<70%	106-97-8

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.

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 ºC.

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 2Y





6. ACCIDENTAL RELEASE MEASURES

Spillage 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

Ventilation DO 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 LIQUIFIED PETROLEUM GAS (LPG) (68476-85-7)

Standards ES-STEL: 400 ppm (1800 mg/m³)

Personal No personal protective equipment is required, normally. When an inhalation risk exist wear a

Protection Type A-Class P1 (Organic vapour and Particulate) Respirator. With prolonged use, wear PVC or

Equipment rubber gloves and splash-proof goggles or safety glasses.







9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	COLOURLESS AEROSOL GAS	Solubility (water)	DISPERSABLE
Odour	SLIGHT, ETHEREAL-LIKE ODOUR	Specific Gravity	0.80 - 0.82
рН	NOT AVAILABLE	% Volatiles	100 %
Vapour Pressure	NOT AVAILABLE	Flammability	HIGHLY FLAMMABLE
Vapour Density	> 1 (Air = 1)	Flash Point	< 20 ºC (Propellant)
Melting Point	NOT AVAILABLE	Upper Explosion	NOT AVAILABLE
		Limit	
Boiling Point	NOT AVAILABLE	Lower Explosion	NOT AVAILABLE
		Limit	
Evaporation Rate	NOT AVAILABLE	Auto-ignition	NOT AVAILABLE
		Temperature	

10. STABILITY AND REACTIVITY

Reactivity Incompatible with oxidising agents (e.g. hypochlorite), alkalis, / alkali earth metals and finely

divided metal powders (e.g. aluminium, barium, lithium), heat and ignition sources.

Decomposition May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition

Products temperatures.

11. TOXICOLOGICAL INFORMATION

Health Hazard	General
Summary	to prese

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.

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. ECOLOICAL INFORMATION

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

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG AND HZNO CODES.

	Shipping Name	UN No	Packing Group	DG Class	Subsidiary Risk(s)	EPG
Land	Compressed Gas Flammable Aerosol	1950	None Allocated	2.1	None Allocated	2C1
Sea	Compressed Gas Flammable Aerosol	1950	Ш	2.1	None Allocated	2C1

Aerosc



Shipping Label

15. REGULATORY INFORMATION

EPA HSR002515

Poison Schedule A pois

AICS

A poison schedule number has not been allocated to this product using the criteria in the $\,$

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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.

SAFETY DATA SHEET



MAC ARANDELL PPE SANITISER

Personal Protection Equipment Sanitiser & Freshener

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.

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 Arandee Ltd. 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.