

SAFETY DATA SHEET

According to Regulation (EC) no. 1907/2006

SECTION 1: Identification of the substance/mixture & of the Company/ Undertaking

1.1 Product Name: Synthesis Hand Sanitiser

1.2 Application of the substance/mixture: Hand sanitiser. For external use only.

1.3 Details of the Manufacturer / Distributor: Synthesis
12/7 Grevillea Avenue,
Byron Bay 2487
Australia

1.4 Emergency telephone number: +61 2 8091 4345

1.5 POISON INFORMATION CENTRE: 13 11 26 (Australia)

SECTION 2: Hazard Identification

Classified as dangerous goods by the criteria of the Australian Dangerous goods code (ADG) for Transport and Rail.

DANGEROUS GOODS.

Dangerous Goods Class: 3

This material is a product that is safe to use on hands. This product is hazardous according to Work Safe Australia.

Signal word: Warning



Hazard statements:

Flammable liquids- Category 3

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P233 Keep container tightly closed

P240 Ground/bond container and receiving equipment

P241 Use explosion-proof electrical, ventilating, lighting and all other equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator

P303+P361+P353 If on skin/ hair: remove/take off immediately all contaminated clothing. Rinse skin with water.

P370+378 In case of fire: Use water fog, alcohol resistant foam or dry agents for extinction

P403+P235 Store in a well-ventilated place. Keep cool

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

SECTION 3: Composition/formulation on ingredients

Name of Chemical	CAS Number	Percentage w/w
Alcohol	64-17-5	>60
Aloe Barbadensis Leaf Juice	85507-69-3 / 94349-62-9	<30
Glycerin	56-81-5	<5
Backhousia Citriodora (Lemon Myrtle) Leaf Oil	84775-80-4	<0.5
Cinnamomum Zeylanicum (Cinnamon) Bark Oil	8015-91-6	<0.5
Mentha Piperita (Peppermint) Oil	8006-90-4	<0.5
Thymus Vulgaris (Thyme) Oil	8007-46-3	<0.5
Citrus Aurantium Dulcis (Sweet Orange) Peel Oil	8008-57-9	<0.5
Eucalyptus polybractea (Eucalyptus Blue Mallee) Oil	8000-48-4	<0.5
Melaleuca alternifolia (Tea Tree) Oil	68647-73-4	<0.5
Citrus Limon (Lemon) Peel Oil	8008-56-8	<0.5

SECTION 4: First Aid Measures

4.1 Description of first aid measures

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126)

FIRST AID:	
Swallowed	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.
Eye	Flush eye with copious amounts of water for 15 minutes including under eyelid. If discomfort persists, obtain medical advice.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.
Inhaled	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting Measures

Hazchem code: 2Y

5.1 Suitable Extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, dry agent (carbon dioxide, dry chemical powder).

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters: Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures: Remove all sources of ignition. Increase ventilation. Evacuate all personnel. Wear sufficient respiratory protection and full protective clothing to minimise skin and eye exposure. If possible contain the spill.

6.2 Environmental precautions: No special measures required.

6.3 Methods and material for containment and cleaning up: Slippery when spilt. Clean up immediately. Wear protective equipment to avoid eye contact. Contain – prevent run off into drains and waterways. Use absorbent material. Collect and seal on properly labelled containers for disposal. If large quantities of this material enter the waterways, contact the Environmental Protection Authority or you local Waste Management Authority.

6.4 Reference to other sections: See Section 7 for information on safe handling.

SECTION 7: Handling & Storage

7.1 Precautions for safe handling

Avoid contact with eyes. Good personal hygiene practices should be used ie. Wash hands after contact, otherwise wear protective clothing.

7.2 Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Class 3 Flammable Liquid as per the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail” and/or the “New Zealand NZS5433: Transport of Dangerous Goods on Land” and must be stored in accordance with the relevant regulations.

SECTION 8: Exposure Controls /Personal Protection:

National occupational exposure limits:

	TWA		STEL		Notices
	ppm	mg/m3	ppm	mg/m3	
Ethyl alcohol 64-17-5	1000	1800	-	-	-

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES.

Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user

should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

If risk of inhalation of exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

When handling individual retail packs no personal protection equipment is required.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: Physical & Chemical Properties

Appearance: Liquid

Odour: Lemon Myrtle

pH: 4.5-5.5

Melting point: Not determined

Viscosity: Not determined

Solubility: Soluble in water

Vapour density: Not applicable.

Colour: Light yellow

Odour threshold: Not determined

Flash point: Not available

Boiling point/Boiling range: Not determined

Self-igniting: Product is not self - igniting

Density at 20 °C: Not determined

Vapour pressure: Not applicable

SECTION 10: Stability & Reactivity

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

SECTION 11: Toxicology Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

7.1 Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: May be an eye irritant.

7.2 Acute toxicity

Inhalation: This material has been classified as non-hazardous.

Skin contact: This material has been classified as non-hazardous.

Ingestion: This material has been classified as non-hazardous.

Corrosion/Irritancy: Eye- this material has been classified as not corrosive or irritating to eyes. Skin- this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation- this material has been classified as not a respiratory sensitiser. Skin- this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

7.3 Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

SECTION 12: Ecological Information

12.1 Ecotoxicity: Avoid contaminating waterways

12.2 Persistence/degradability: No tested data available on this product.

12.3 Bioaccumulative potential: This product shows a low bioaccumulation potential

12.4 Mobility: Prevent contamination of soil, ground and surface water.

Section 13: Disposals Consideration

Disposal Methods:

Refer to Waste Management Authority. Dispose of contents/containers in accordance with local/regional/national/international regulations.

SECTION 14: Transport Information

ROAD TRANSPORT

According to ADR this preparation is listed under UN 1170, Packing Group III and for which there is a LQ7 Limited Quantities coding. However, since the net weight of the preparation in a pack is less than 500g and the gross weight of the packs of the preparation is less than 20kg, the provisions of ADR are not applicable to the preparation except that the transport case has to be marked with a 100 x 100 mm white diamond shaped area surrounded by a 2mm wide line within which 'UN No. 1170' is printed to a height of at least 6mm.

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".



Land Transport of Dangerous Goods	
UN Number:	1170
Proper Shipping Name:	Ethanol solution
DG Class:	3
Subsidiary Risk:	None
Packing Group:	III
HAZCHEM Code:	.2Y

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.



Marine Transport of Dangerous Goods	
UN Number:	1170
Proper Shipping Name:	Ethanol solution
DG Class:	3
Subsidiary Risk:	None
Packing Group:	III

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



Air Transport of Dangerous Goods	
UN Number:	1170
Proper Shipping Name:	Ethanol solution
DG Class:	3
Subsidiary Risk:	None
Packing Group:	III

SECTION 15: Regulatory Information

POISONS SCHEDULE (SUSMP) :	Not subject to labelling
AICS:	All ingredients in this product are compliant with NICNAS regulations

SECTION 16: OTHER INFORMATION

The information herein is accurate to the best of our knowledge. However, it is meant to describe safety requirements of our products, thus this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. No warranty is expressed or made as to this document's accuracy, reliability or completeness. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated.

Relevant phrases

Non relevant

Synthesis

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END OF MSDS