

Safety Data Sheet

Hazardous Substance, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Trafalgar Hand Sanitiser**

Recommended use: Sanitising of hands

Supplier: Brady Australia Pty Ltd.
ABN: 28 000 788 447
Street Address: 2 Bellevue Circuit
Greystanes NSW 2145
Telephone: 1800 113 896

Emergency Telephone number: **1300 362 327**

2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of Safe Work Australia.

Signal Word

Danger



Hazard Classifications

Flammable Liquids - Category 2
Serious Eye Damage/Irritation - Category 2A

Hazard Statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Prevention Precautionary Statements

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.
P264 *Wash all exposed skin thoroughly after handling.*
P280 Wear eye protection.

In relation to Precautionary Statements P240, P241, P242 and P264, consult Section 16 for additional information in relation to the use of this product when obtained only in consumer packages.

Response Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
P303+P361+P353 *IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water or shower.*
P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P337+P313 If eye irritation persists: Get medical advice/attention.

In relation to Precautionary Statement P303+P361+P353, consult Section 16 for additional information in relation to the use of this product when obtained in only consumer packages.

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Storage Precautionary Statement

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

Disposal Precautionary Statement

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

Poison Schedule: Not Applicable

DANGEROUS GOODS CLASSIFICATION

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".

Dangerous Goods Class: 3

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS No.	PROPORTION (% w/w)
Ethanol	64-17-5	75%
Propylene glycol	57-55-6	5%
Triethanolamine	102-71-6	0.1%
Ingredients classified as non-hazardous (including water)		Balance to 100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: In the event of significant inhalation of the vapours or mist, 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.

Skin Contact: When applied to the skin for sanitisation purposes the product should be immediately rubbed onto the skin to the point that product is no longer visible. Visible quantities of the product applied to skin, hair or clothing can place the person at risk of injury by fire. Excessive quantities of the product in contact with skin or hair should be immediately washed off with water, or by showering if necessary. If visible product is present on clothing, remove contaminated clothing and if necessary flush hair and any skin under the clothing with running water. If swelling, redness, blistering or irritation occur seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water. 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.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: 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.

PPE for First Aiders: Wear safety shoes, overalls, gloves and safety glasses and (if the product is extensively dispersed at the location of the patient) a respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. Wash hands before smoking, eating or drinking. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: +2YE

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).

Specific hazards: Highly flammable liquid and vapour. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this product is being used if using in quantities greater than small consumer packages. Electrical requirements for work area should be assessed according to AS3000. Within poorly ventilated areas, vapour may travel a considerable distance to source of ignition and flash back. All potential sources of ignition (open flames, pilot lights, furnaces, spark-producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

Fire fighting further advice: Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from potential 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.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run-off into drains and waterways. Use soil, sand or other inert material as absorbent. Do not use combustible absorbents such as saw-dust. Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: 14

7. HANDLING AND STORAGE

Handling: Avoid eye contact and prolonged skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: 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. It's advised that Australian Standard 1940 (The Storage and Handling of Flammable and Combustible Liquids) is consulted for best practice in the storage and handling of this product in bulk or in packages.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

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Exposure limit: Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Ethanol (Ethyl alcohol)	1000	1880	-	-	-
Propylene glycol (vapour & particulates)	150	474	-	-	-
Propylene glycol (particulates only)		10			
Triethanolamine	-	5	-	-	-

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 to 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 standards. The standards were 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. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Personal Protection Equipment:

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

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

For processing of quantities greater than retail quantities of this product, the following apply: wear safety shoes, overalls, gloves and safety glasses. Use with adequate ventilation. If inhalation risk exists (for example, when handling the substance in a poorly ventilated area) wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. 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, or ensure that no visible traces of the product remain on the hands. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feedstuffs. When using do not eat, drink or smoke. Prior to eating, drinking or smoking, ensure that no visible residues of the product remain on the skin or wash product off the skin. Avoid contact with clothing. Avoid eye contact and prolonged skin contact. Avoid inhalation of vapour, mist or aerosols. If the product is being processed in large quantities (for example, in packages larger than consumer packages or multiple consumer packages) ensure that eyewash stations and safety showers are close to the workstation location. Otherwise, ensure that a means of washing exposed parts of the body or contaminated clothing with water is readily available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance/Colour:	Clear
Odour:	Odourless
Solubility:	Miscible with water
Specific Gravity (Water = 1):	0.89 to 0.90
Relative Vapour Density (air=1):	1.3 (Ethanol)
Vapour Pressure (20°C):	5.9 kPa (Ethanol)
Flash Point (°C, for 70 wt. % ethanol):	Approx. 21°C
Flammability Limits (%):	3.3 – 19% (Ethanol)
Autoignition Temperature (°C):	363°C (Ethanol)
Melting Point/Range (°C):	N. Av.
Boiling Point/Range (°C):	85 to 87°C (Ethanol)
pH:	N. Av.
Viscosity:	N. Av.
Total VOC (g/Litre):	N. Av.

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND 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: Carbon monoxide and carbon dioxide.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are 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:

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: An eye irritant.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 20,000 ppm for gas

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

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Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as a Category 2A Hazard (reversible effects 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.

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.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. Containers should be washed out before recycling to reduce the risk of fire. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

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".

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UN No: 1170
Dangerous Goods Class: 3
Packing Group: II
Limited Quantity for road transport: 1 litre
Hazchem Code: •2YE
Emergency Response Guide No: 14



Proper Shipping Name: ETHANOL SOLUTION

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.

UN No: 1170
Dangerous Goods Class: 3
Packing Group: II



Proper Shipping Name: ETHANOL SOLUTION

AIR TRANSPORT

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

UN No: 1170
Dangerous Goods Class: 3
Packing Group: II



Proper Shipping Name: ETHANOL SOLUTION

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

This material is subject to the following international agreements:

- Basel Convention (Hazardous Waste)
 - Organic solvents excluding halogenated solvents

This material/constituent(s) is covered by the following requirements:

- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Reason for issue: First Issue

Note concerning Precautionary Statements P240, P241 and P242:

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Statement P240: grounding (also called earthing) and bonding are important when flammable liquids are being transferred between different containers, especially in quantities of about 20 litres or more. In relation to the use of the product by consumers this statement may not apply.

Statements P241 and P242: the product is a flammable liquid, and these statements should be observed when electrical equipment, and any tools that could produce sparks, are used when the product is being stored and handled in significant quantities. In a poorly ventilated area the product, if being transferred or if dispersed owing to a spillage or if somehow heated may give rise to an explosive vapour atmosphere that could be ignited by a spark. When being dispensed as a hand sanitiser from a consumer package this situation may be less likely to occur but users should nevertheless be aware of the hazard.

Note concerning Precautionary Statements P264 and P303+P361+P353:

Statement P264 and P303+P361+P353: it's recognised that this product, when sold as a consumer product, is to be used as a sanitising gel that's intended for application to the hands. It's advised that if the product is applied to the skin to a sufficient degree that no visible residue of the gel remains on the skin, then no subsequent washing of the skin is considered to be necessary. However, visible quantities of the gel should not be allowed to persist on skin, on hair or on clothing as this would create a flammability danger and as a result the precautionary statement should be followed. Showering may be necessary to remove the product from the hair.

Additional advice if product is to be used within a hospital or a medical clinic:

The quantity of hand-rub kept in a ward or department should be as small as is reasonably practicable for day-to-day purposes.

Handrub dispensers should not be placed above or close to potential sources of ignition, such as light switches and electrical outlets, or next to oxygen or other medical gas outlets (because of the increased risk of vapours igniting).

This Safety Data Sheet has been prepared by CETEC Pty Ltd on behalf of its client.

Safety Data Sheets should be reviewed every five years and more frequently if new information on the ingredients emerges. Please ensure that you have a current copy.

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.