



ALCOHOL HAND SANITISER

SAFETY DATA SHEET - SDS VERSION 2, 8TH OCTOBER 2025.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: Alcohol Hand Sanitiser

Recommended use: Sanitising hands and skin

Supplier name: Biochem Solutions Ltd.

Address: Unit 2, 28 Maich Rd, Manurewa, Auckland, New Zealand.

Phone: +64 27 5888 437

Emergency telephone: International: +643 479 7227; New Zealand: 0800 764 766 (NZ NATIONAL POISON CENTRE).

2. HAZARD IDENTIFICATION

Hazard Classification: **HAZARDOUS** according to GHS-7 (Globally Harmonised System of Classification and Labelling of Chemicals) criteria.

Signal word: Danger.

Symbol: Flame; Exclamation mark.



Hazard Category:

- Flammable liquids - Category 2.
- Eye damage / irritation - Category 2A.
- Hazardous to the aquatic environment (Chronic) - Category 3.

Hazard statement/s:

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

Hazard prevention statement/s:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof (electrical/ventilation/lighting) equipment
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharge.
- P261 Avoid breathing vapours/spray.
- P271 Use only outdoors, or in a well-ventilated area.
- P264 Wash hands after handling bulk product.
- P280 Wear protective gloves and eye/face protection.
- P273 Avoid release to the environment.

Hazard response statement/s:

- P303 + P361 + P353 IF ON SKIN: Immediately remove all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 + P312 IF INHALED: Move to fresh air and keep comfortable for breathing. Call a poison centre or doctor if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Flush with water for several minutes. Remove any contact lenses. Continue rinsing.
- P337 + P313 If eye irritation persists, get medical advice/attention.
- P370 + P378 In case of fire, use water fog, foam, carbon dioxide or dry chemical to extinguish.

Hazard storage statement/s: P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal statement codes: P501 Dispose of product and packaging in accordance with local council regulations.

The information contained in this SDS is specific to the product when handled and used neat. This product when diluted/mixed may not require the same control measures as the neat product. Check with your technical representative if in doubt.

3. COMPOSITION / INFORMATION ON INGREDIENTS

At the levels used in the product, these ingredients are considered either hazardous or dangerous goods according to GHS-7:

INGREDIENT	CAS No.	PROPORTION (%)
Ethyl Alcohol	64-17-5	50 - 80%
Cocoamido betaine	61789-40-0	1 - 5%
tert-Butyl alcohol	75-65-0	1 - 2%

4. FIRST AID MEASURES

Ingestion: Rinse mouth out with water. Do NOT induce vomiting.

Eye contact: Flush with water for several minutes. Remove contact lenses. Continue rinsing for at least 15 minutes.

Skin contact: Wash hands thoroughly after handling bulk product.

Inhalation: Remove from source of exposure to fresh air. Allow the person to rest in a position where they can breathe easily.

5. FIRE FIGHTING METHODS

General measures: Use flame-proof equipment in all areas where this chemical is being used. Nearby equipment must be earthed.

Extinguishing media: Water fog, foam, carbon dioxide or dry chemical.

Flammability conditions: Highly flammable liquid - explosive vapour.

Fire fighting instructions: Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers, but store it for treatment.

Fire and explosion hazards: May form flammable mixtures with air. Vapours are heavier than air and may travel to an ignition source and flash back. Vapour can spread along the ground, collect in low or confined areas and/or cause flash fire. May be ignited by heat, sparks or flame. May polymerise explosively when heated. Heating may cause expansion/decomposition of the material, causing containers to explode.

Hazardous products of combustion: May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

Precautions for fire fighters: Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

PPE: Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (fire fighting helmet, coat, trousers, boots, gloves) or chemical splash suit.

HAZCHEM code: 2YE

6. ACCIDENTAL RELEASE MEASURES

General: Evacuate all unnecessary personnel. Shut off all sources of ignition. Stop leak if safe to do so. Use clean, non-sparking equipment.

Increase ventilation. Clean up immediately. Do not walk through spill as it may be slippery. Use water spray or foam to cool and disperse vapours, protect personnel and dilute spills. (this will not necessarily prevent ignition in closed spaces). Bund spill to keep it from entering drains, waterways.

Clean up procedures: Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material, transfer to suitable, labelled, dry chemical-waste containers and dispose of promptly as hazardous waste.

Wash area down with excess water.

PPE: Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit.

7. HANDLING AND STORAGE

Handling: Ensure an eye bath & shower are available and ready for use. Observe good personal hygiene practices and recommended procedures.

Wash hands after handling bulk product. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes. Do not inhale product vapours. Operations should be carried out in an efficient fume hood or equivalent system. Keep away from combustible material. Empty containers pose a fire risk, evaporate residue under a fume hood. Chemicals should be used only by those trained in handling potentially hazardous materials.

Storage: Store in cool, dry, well ventilated area, removed from oxidising agents, acids, alkalis, heat or ignition sources, foodstuffs, out of direct sunlight and out of the reach of children. Ensure containers are 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

National exposure standards: No information available.

Exposure limits: No information available.

Biological limit values: No biological limit allocated.

Engineering controls: Keep an eye-bath on hand. An local exhaust ventilation system is recommended. It controls contaminant emissions at the source, preventing spread to the general work area. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended. Flammable / explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. DO NOT enter confined spaces where vapour may have collected. Maintain vapour levels below the recommended exposure standard.

PPE: Respirator: Where an inhalation risk exists, wear an organic vapour respirator. Eyes: Splash proof goggles. Hands: Elbow length nitrile or neoprene gloves. Clothing: Chemical-resistant coveralls, splash apron and safety footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Clear, colourless liquid.

Odour: Slight ether-like.

pH: 6.5 - 7.5.

Specific gravity: No information available.

Boiling point: No information available.

Flash point: $\pm 20^{\circ}\text{C}$.

Flammability: Highly flammable liquid.

Vapour pressure/density: No information available.

Density: No information available.

Auto ignition temperature: No information available.

Solubility in water: Complete

Shelf life: 2 years from date of manufacture (when stored as directed).

10. STABILITY AND REACTIVITY

General information: Highly flammable liquid and vapour. Hygroscopic: absorbs moisture or water from surrounding air.

Chemical stability: Product is stable under normal conditions of use, storage and temperature.

Conditions to avoid: Avoid heat, sparks, flames, direct sunlight, moisture, freezing, static charges, mechanical shock, high temperatures and any high energy ignition sources. Also avoid enclosed spaces.

Materials to avoid: Incompatible with oxidising agents (eg. Hypochlorites, peroxides), acids (sulphuric acid), acid chlorides, strong alkalis (eg. Hydroxides), alkali metals, ammonia, potassium tert-butoxide and all sources of heat and ignition.

Hazardous decomposition: May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

Hazardous polymerisation: Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

Eye irritant: Causes severe eye irritation. Flush well with water.

Skin irritant: Prolonged contact may cause dryness and mild, transient irritation. Wash off with soap and water.

Ingestion: Ingestion may result in transient gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headache, dizziness.

Inhalation: Irritant. Inhalation may cause transient irritation to the respiratory system, nose and throat irritation, coughing and headache.

12. ECOLOGICAL INFORMATION

Persistence/degradability: It will biodegrade, probably to acetic acid and formaldehyde. Ethanol will volatilise from water and biodegrade, and is not expected to bioconcentrate. It will photodegrade in air with a half-life ranging from hours (polluted air) to days (clean air).

Mobility: If spilled on soil, ethanol will either evaporate or leach into the ground due to relatively high vapour pressure and low absorption in soil.

Environmental impact: Harmful to aquatic life with long lasting effects. Avoid release to the environment.

Bioaccumulation potential: Ethanol has a low potential for bioaccumulation. Biodegradable in water.

13. DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with all local and regional council regulations. Empty containers should be triple rinsed and sent for recycling.

14. TRANSPORT INFORMATION

Classified DANGEROUS GOODS by the by the NZ Transport Agency - Land Transport Rule (2005).

UN NUMBER	UN NAME	CLASS	PACKING GROUP
1170	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	3	II

15. REGULATORY INFORMATION

Country/ region: New Zealand

Status: Classified as Hazardous according to GHS-7 and Dangerous Goods for transport within New Zealand (NZTA).

Group standard: Cosmetic Products Group Standard 2020 - HSR002552.

16. OTHER INFORMATION

SDS issue number: 2 - This issue number replaces all previous issues

SDS issue date: 8/10/2025.

Reason(s) for issue: 5-Year update.

HSNO classifications: 3.1B, 6.4A, 9.1C.

In any event, the review and, if necessary, the re-issue of a SDS shall be no longer than 5 years after the last date of issue.

17. LEGEND

EPA: Environmental Protection Authority (NZ)

GHS: Globally Harmonised System

NZTA: NZ Transport Agency

PPE: Personal Protective Equipment

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit = 15-min TWA exposure. Max 4x a day (at least 60min between successive exposures at the STEL).

TLV: Threshold Limit Value. Substance airborne concentrations/levels that workers are repeatedly exposed to daily without adverse effect.

TWA: Time Weighted Average. The AVG airborne concentration of a substance, calculated over an 8-hour day, for a 5-day working week.

This SDS, prepared from current EPA & Worksafe NZ guidelines, summarises at the date of issue our best knowledge of the health & safety information of the product and in particular how to safely handle and use the product in the workplace. 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 products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. This SDS may only be reproduced in full, as summaries/excerpts may not contain all the relevant information and thus are not permitted.