

SAFETY DATA SHEET: HAND SANITISER**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: HAND SANITISER

Other means of identification: not applicable

Recommended use: Hand Sanitiser

Restrictions on use: For industrial and professional use only

Product dilution information: Product is sold ready to use

Company: CambCol Ltd., Unit 18, Oak Lane Business Park, Littleport, Cambridgeshire, CB6 1RS

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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids: **Category 2**
Eye irritation: **Category 2A**

**GHS Label element Hazard pictograms:**

Signal Word: Danger

Hazard Statements: Highly Flammable liquid and vapor.
Causes serious eye irritation.

Precautionary Statements:**Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: Store in a well-ventilated place. Keep cool. Disposal: Dispose of contents/ container to an approved waste disposal plant.

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture: Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	80 - 85%

SECTION 4. FIRST AID MEASURES

<i>In case of eye contact:</i>	Rinse with water
<i>If swallowed:</i>	Rinse mouth. Get medical attention if symptoms occur.
<i>If inhaled:</i>	Get medical attention if symptoms occur.
<i>Protection of first-aiders:</i>	No special precautions are necessary for first aid responders.
<i>Notes to physician:</i>	Treat symptomatically. See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire-fighting:

Fire Hazard Keep away from heat and sources of ignition. Flash back possible over considerable distance. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Hazardous combustion products: Carbon oxides

Special protective equipment for fire-fighters: Use personal protective equipment.

Specific extinguishing methods:

Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions:

Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up:

Eliminate all ignition sources if safe to do so. Stop leak if safe to do so.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Flush away traces with water.

For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

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SECTION 7. HANDLING AND STORAGE

Advice on safe handling:

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from fire, sparks and heated surfaces.

Conditions for safe storage:

Keep away from heat and sources of ignition. Keep in a cool, well ventilated place.

Keep away from oxidizing agents.

Keep out of reach of children.

Keep container tightly closed. Store in suitable labelled containers.

Storage temperature: 0 °C to 35 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Authority
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm or 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm or 1,900 mg/m ³	OSHA Z1
		TWA	1,000 ppm or 1,920 mg/m ³	EH40

Engineering measures:

Eye protection: No special protective equipment required.

Hand protection: No special protective equipment required.

Skin protection: No special protective equipment required.

Respiratory protection: No personal respiratory protective equipment normally required.

Hygiene measures: No specific measures identified.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: thin gel

Colour: opaque, white

Odour: alcoholic

pH: 6.3 - 8.5

100% Flash point for mixture 19 °C closed cup

Odour Threshold: no data available

Melting point/freezing point: no data available

Initial boiling point and boiling range: 78-100°C

Evaporation rate: no data available

Flammability (solid, gas): no data available

Upper explosion limit: no data available

Lower explosion limit: no data available

Vapor pressure: no data available

Relative vapor density: no data available

Relative density for mixture	0.86 - 0.87
Water solubility:	no data available
Solubility in other solvents:	no data available
Partition coefficient for Ethanol	octanol/water: 0.52
Autoignition temperature for Ethanol	363°C
Thermal decomposition:	no data available
Viscosity, kinematic:	no data available
Explosive properties:	no data available
Oxidizing properties:	no data available
Molecular weight:	no data available
VOC:	no data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Heat, flames and sparks.
Incompatible materials:	None known.
Hazardous decomposition products:	Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes: Causes serious eye irritation.

Skin: Health injuries are not known or expected under normal use.

Ingestion: Health injuries are not known or expected under normal use.

Inhalation: Health injuries are not known or expected under normal use.

Chronic Exposure: Health injuries are not known or expected under normal use

Experience with human exposure

Eye contact: Redness, Pain, Irritation

Skin contact: No symptoms known or expected.

Ingestion: No symptoms known or expected.

Inhalation: No symptoms known or expected.

Toxicity

Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg

Acute inhalation toxicity: no data available

Acute dermal toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Carcinogenicity

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects: no data available

Germ cell mutagenicity: no data available

Teratogenicity: no data available

STOT-single exposure: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure: no data available

Aspiration toxicity: no data available

Ingredients: Ethanol

Acute inhalation toxicity: LC50 rat: 117 mg/l /4h

Acute dermal toxicity: LD50 rabbit: 15,800 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects: Harmful to aquatic life.

Product no data available

Ingredients: Ethanol

Toxicity to fish:	Fish (general	LC50 = 11,000 mg/l/96hr
	Fathead minnow,	LC50 =14200 mg/l/96h
	Water flea,	EC50 =9268 mg/l/48h
	Freshwater algae	EC50 =275 mg/l/72h
	Photobacterium phosphoreum	EC50 = 34634 mg/L/30min

Persistence and degradability: no data available

Bioaccumulative potential: Bioaccumulation is unlikely.

Mobility in soil: The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces Will likely be mobile in the environment due to its volatility.
Disperses rapidly in air

Other adverse effects: no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods:

The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste: D001 (Ignitable)

UK Environment agency – Waste classification HP 3 – Flammable liquid class 2. H225.

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labelling, and markings are in compliance with the selected mode of transport.

Land transport (ADR, DOT, UK Gov HSE DVSA)**& Sea transport (IMDG/IMO, UK Gov, Maritime and coastguard agency)**

14.1	UN number:	UN1170
14.2	Description of the goods:	Ethanol solutions
14.3	UN Transport hazard Class:	3
14.4	Packing group:	II
14.5	Environmentally hazardous:	no
	Marine pollutant:	no
14.6	Special precautions for user:	no special precautions required
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

Hazardous Component Inventories listed

Ethanol EINECS, TSCA, DSL, PICCS, ENCS, IECSC, AICS, KECL.

National regulations Germany water classification: WGK1

France INRS Tables of occupational diseases – RG84

UK – Control of substances Hazardous to health regulations.

15.2 Chemical safety assessment.

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

CERCLA Reportable Quantity This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SECTION 16. OTHER INFORMATION

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SECTION 17. LEGEND

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

DNEL - Derived No Effect Level

PNEC - Predicted No Effect Concentration

RPE - Respiratory Protective Equipment

LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50%

EC50 - Effective Concentration 50%

NOEC - No Observed Effect Concentration

POW - Partition coefficient Octanol:Water

PBT - Persistent, Bioaccumulative,

Toxic vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

MARPOL - International Convention for the Prevention of Pollution from Ships

OECD - Organisation for Economic Co-operation and Development

ATE - Acute Toxicity Estimate

BCF - Bioconcentration factor

SECTION 18. INCI List

INCI Name	INN Name	Ph. Eur. Name	CAS No., EINECS/ELINCS No.	Chem. IUPAC Name	Function
ALCOHOL	Alcohol	alcoholum/ethanolum	64-17-5, 200-578-6	Ethanol	Solvent
ALCOHOL DENAT	Ethanol denatured in accordance with Customs and Excise regulations				Solvent
AQUA	Water (Sterile)			Aqua	Diluent, Solvent
GLYCERIN	Glycerol	glycerolum	56-81-5, 200-289-5	Glycerol	Denaturant/humectant/solvent
HYDROGEN PEROXIDE	Hydrogen peroxide	hydrogenii peroxidum Hydrogen peroxide	7722-84-1, 231-765-0	Hydrogen Peroxide	Oxidising/antimicrobial