

Safety data sheet



according to 1907/2006/EC

Revision: 07 April 2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- Trade name: **HAND SANITIZER**
- Other means of identification: **HYGIENE HAND GEL**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Application of the substance / the mixture: **Hand Sanitizer**
- Uses advised against: **No further relevant information available.**
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
STERLING BRAND
- **Importer/Distributor:**
Beal UK Ltd
Sterling Works,
Texas Street,
Tingley (A650),
Leeds LS27 0HG
- **1.4 Emergency telephone number:**
ChemTel Inc.
- (800) 255-3924 (North America)
- (801) 1 (813)248-0585 (International)
- (802) 300-954-583 (Australia)
- (803) 800-591-6042 (Brazil)
- 400-120-0751 (China)
- 000-800-100-4086 (India)
- 800-099-0731 (Mexico)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye irritation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
-  
- GHS02 GHS07
- **Signal word** Danger

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- **Hazard statements**

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

- **Precautionary statements**

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/ventilating/lighting] equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): 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.
P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Components:**

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	Ethanol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319	70-80%
CAS: 56-81-5 EINECS: 200-289-5 Reg.nr.: 01-2119471987-18-XXXX	Glycerol substance with a Community workplace exposure limit	<5%

- **Additional information:** For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Product is manufactured for topical use. If irritation occurs, discontinue use and wash affected area with

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soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

· **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

Causes serious eye irritation.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Alcohol resistant foam

Water haze or fog

Water spray

Carbon dioxide

Gaseous extinguishing agents

Fire-extinguishing powder

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Highly flammable liquid and vapour.

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information:**

Cool endangered product with water spray.

Use large quantities of foam as it is partially destroyed by the product.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

Use personal protective equipment as required.

Ensure adequate ventilation

Remove ignition sources.

· **6.2 Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **6.3 Methods and material for containment and cleaning up**

Towel or mop up material and collect in a suitable container.

For larger spills, add non-combustible inert binding material, then sweep up and discard.

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Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about fire - and explosion protection:

Highly flammable liquid and vapour.

Keep ignition sources away - Do not smoke.

Flammable gas-air mixtures may form in empty receptacles.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Do not allow product to freeze.

Information about storage in one common storage facility: Store away from oxidising agents.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

64-17-5 Ethanol

WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

OEL (Ireland) Short-term value: 1000 ppm

56-81-5 Glycerol

WEL (Great Britain) Long-term value: 10 mg/m³OEL (Ireland) Long-term value: 10 mg/m³

8.2 Exposure controls

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Respiratory protection: For spills, respiratory protection may be advisable.

Protection of hands:

Wear protective gloves to handle contents of damaged or leaking units.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection: Follow relevant national guidelines concerning the use of protective eyewear.

Body protection: Protection may be required for spills.

Limitation and supervision of exposure into the environment:

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No further relevant information available.

- **Risk management measures:** No further relevant information available.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance

Form: Viscous liquid.

Colour: Clear

· Odour: Alcohol-like

· Odour threshold: Not determined.

· pH-value at 20 °C: 4-8

· Melting point/freezing point: Not determined.

· Initial boiling point and boiling range: 78,5 °C

· Flash point: 17 °C

· Flammability (solid, gas): Not applicable.

· Auto/Self-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits

Lower: Not determined.

Upper: Not determined.

· Oxidising properties: Non-oxidising.

· Vapour pressure: Not determined.

· Density:

Relative density: 0,86-0,90

Vapour density: Not determined.

Evaporation rate: Not determined.

· Solubility in / Miscibility with

water: Fully miscible.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity

Dynamic: 3000-6000 mPas

Kinematic: Not determined.

· 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity: No further relevant information available.

· 10.2 Chemical stability: Stable under normal temperatures and pressures.

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- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Highly flammable liquid and vapour.
Reacts with oxidising agents.
Used empty containers may contain product gases which form explosive mixtures with air.
- **10.4 Conditions to avoid**
Excessive heat.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- **10.5 Incompatible materials** Oxidising agents
- **10.6 Hazardous decomposition products**
Under fire conditions only:
Possible in traces.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

64-17-5 Ethanol

Oral	LD50	7060 mg/kg (rat)
Inhalative	LC50/4h	20000 mg/l (rat)

- **Primary irritant effect**
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:**
Causes serious eye irritation.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **IARC (International Agency for Research on Cancer):**
Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5	Ethanol	1
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- **Probable routes of exposure:**
Ingestion.
Inhalation.
Eye contact.
Skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> · 14.1 UN-Number · DOT, ADR/RID/ADN, IMDG, IATA | <p style="text-align: center;">UN1170</p> |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · DOT, IATA · ADR/RID/ADN, IMDG | <p style="text-align: center;">Ethanol solution or Ethyl alcohol solution
ETHANOL (ETHYL ALCOHOL) solution</p> |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · DOT | |
|  | |
| <ul style="list-style-type: none"> · Class · Label | <p>3
3</p> |
| <ul style="list-style-type: none"> · ADR/RID/ADN | |
|  | |
| <ul style="list-style-type: none"> · Class · Label | <p>3 (F1)
3</p> |

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· IMDG, IATA



· Class	3
· Label	3

· 14.4 Packing group

· DOT, ADR/RID/ADN, IMDG, IATA	II
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· 14.5 Environmental hazards:

· Marine pollutant:	No
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· 14.6 Special precautions for user

· Hazard identification number (Kemler code):	Warning: Flammable liquids.
· EMS Number:	33
	F-E,S-D

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· DOT



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

See 173.150(g) for small quantity retail product exemptions.

· ADR/RID/ADN



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

· IMDG



Limited Quantity for packages less than 30 kg gross and inner packagings less than 1 L each.

· IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0,5 L each / 1 L net.

SECTION 15: Regulatory information

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

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- **IARC (International Agency for Research on Cancer)**

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5	Ethanol	1
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- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients are listed.

- **Other regulations, limitations and prohibitive regulations**

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulable, Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- **Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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