

Process Heading	Product Specification
Process Owner	R&D Dept.
Reference	CLE01-LHS
Created By	Sychem
Signature	
Date	07/03/2020

Liquid Hand Sanitiser

SECTION1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	HAND SANITISING GEL
Product number	ALCG2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Cleaning agent
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1.3 Details of the supplier of the safety data sheet

Supplier	Sychem Ltd, TS Group Unit 3, Mayflower Close Southampton SO53 4AR UK Tel: 0845 644 6824 sales@sychem.co.uk
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1.4 Emergency telephone number



Emergency telephone	Emergency contact number 0845 644 6824 (9am to 5pm Monday to Friday excluding bank holidays). Ask for Technical Department quoting the product name. Outside of these hours please contact your doctor or local hospital accident and emergency department or the NHS enquiry service (dial 111) quoting product name and present this MSDS advising them that the product is registered with the National Poisons Information Service
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SECTION 2: Hazards Identification

2.1 Classification of Substance or mixture

Classification – EC 12722008	EYE IRRITANT 2 H319 AQUATIC CHRONIC. 3 H412
Physical Hazards	FLAMMABLE LIQUID 3-H226
Health Hazards	EYE IRRITANT 2 – H319
Environment Hazards	NOT CLASSIFIED
Classification – 67/548/EEC OR 1999/45/EC	R10
Human Health	Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Environmental The product is not expected to be hazardous to the environment. Physicochemical The product is flammable. Heating may generate flammable vapours.

2.2 Label Elements

LABEL ELEMENTS	
Symbols	 
Signal word	WARNING
Hazard statement	H226 Flammable liquid and vapour. H319 Causes serious eye irritation.
Precautionary Statement: Prevention	P102-KEEP OUT OF REACH OF CHILDREN. P 15- RESTRICTED TO PROFESSIONAL USERS.
Precautionary Statement: Response	P233 Keep container tightly closed. P370+P378 in case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/ container in accordance with national regulations. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor

2.3 Other Hazards

Other Hazards	None
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product	Percentage v/v	Cas No	EC No	REACH Reg No
De-ionised Water	27.9%			
Ethanol	>72% <76%	64-17-5	200-578-6 01	-2119457610-43-XXXX
Methanol	>.5- <1%	67-56-1	200-659-6 01	-2119433307-44-XXXX
Glycerol	>.5% - <1.5%	56-81-5	200-289-5	Exempt
Hydroxypropyl Methylcellulose	1%	7647-14-15	231-598-3 01	-2119485491-33-XXXX
Tea Tree Oil	>.5% - <1.5%	68647-73-4	285-377-1	01-2120743651-57-XXXX

SECTION 4 First aid measures

4.1 Description of First aid Measures

Inhalation	<p>Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.</p> <p>RINSE IMMEDIATELY WITH PLENTY OF WATER REMOVE CONTAMINATED CLOTHING</p> <p>Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.</p>
Eye contact	
Skin Contact	
Ingestion	

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation	<p>GAS OR VAPOUR IN HIGH CONCENTRATIONS MAY IRRITATE THE RESPIRATORY SYSTEM.</p> <p>Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.</p> <p>REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.</p> <p>GASTROINTESTINAL SYMPTOMS, INCLUDING UPSET STOMACH.</p>
Eye contact	
Skin Contact	
Ingestion	

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

	Specific treatments Seek medical attention if irritation or symptoms persist. Symptomatic treatment
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SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemicals, sand, dolomite etc. Do not use water, if avoidable.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	The product is flammable. Heating may generate flammable vapours. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
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5.3. Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	protective equipment and emergency procedures Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.
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6.2 Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.
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6.4. Reference to other sections

Reference to other sections	See section 3,8 & 13 for further information
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SECTION 7 HANDLING & STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

	<p>Usage precautions Keep away from heat, sparks and open flame. Do not wear contact lenses. Avoid spilling.</p> <p>Avoid contact with skin and eyes. Eye wash facilities and emergency shower must be available when handling this product. During application and drying, solvent vapours will be emitted.</p>
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7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

	<p>Storage precautions Store in tightly closed, original container in a dry and cool place. Store under well-ventilated conditions at a temperature below 25°C. Storage class Flammable liquid storage.</p>
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7.3 SPECIFIC END USE(S)

	<p>Specific end use(s) The identified uses for this product are detailed in Section 1.2.</p>
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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters Occupational exposure limits

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Ingredient comments WEL = Workplace Exposure Limits

ETHANOL


DNEL	<p>Workers - Inhalation; Long term systemic effects: 950 mg/m³</p> <p>Workers - Inhalation; Short term local effects: 1900 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 343 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 114 mg/m³</p> <p>General population - Inhalation; Short term local effects: 950 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 206 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 87 mg/kg/day</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 0.96 mg/l - marine water; 0.79 mg/l - Intermittent release; 2.75 mg/l - STP; 580 mg/l - Sediment (Freshwater); 3.6 mg/kg - Sediment (Marine water); 2.9 mg/kg

	- Soil; 0.63 mg/kg
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METHANOL

DNEL	Workers - Inhalation; Long term systemic effects: 260 mg/m ³ Workers - Inhalation; Short term systemic effects: 260 mg/m ³ Workers - Inhalation; Long term local effects: 260 mg/m ³ Workers - Inhalation; Short term local effects: 260 mg/m ³ Workers - Dermal; Long term systemic effects: 40 mg/m ³ Workers - Dermal; Long term systemic effects: 40 mg/kg/day General population - Inhalation; Long term systemic effects: 50 mg/m ³ General population - Inhalation; Short term systemic effects: 50 mg/m ³ General population - Inhalation; Long term local effects: 50 mg/m ³ General population - Inhalation; Short term local effects: 50 mg/m ³ General population - Dermal; Long term systemic effects: 8 mg/kg/day General population - Dermal; Short term systemic effects: 8 mg/kg/day General population - Oral; Long term systemic effects: 8 mg/kg/day General population - Oral; Short term systemic effects: 8 mg/kg/day
DMEL	Workers - Dermal; Long term systemic effects: 40 mg/kg/day
PNEC	- Fresh water; 20.8 mg/l - marine water; 2.08 mg/l - Intermittent release; 1540 mg/l - STP; 100 mg/l - Sediment (Freshwater); 77 mg/kg - Sediment (Marine water); 7.7 mg/kg - Soil; 100 mg/kg

8.2. Exposure controls

Protective equipment	
Appropriate engineering controls	Not relevant.
Eye/face protection	Contact lenses should not be worn when working with this chemical. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Chemical splash goggles.
Hand protection	Hand protection not required.
Other skin & body protection	Provide eyewash station.
Hygiene measures	Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical & chemical properties

Appearance	Gel
Colour	Colourless
Odour	Slightly alcoholic
pH	6-8
Flash point	22°C PMCC (Pensky-Martens closed cup).
Relative density	0.87 @ 20°C

Solubility	Soluble in water.
Viscosity	10,000 CP@ @ 20°C

SECTION 10 STABILITY & REACTIVITY

10.1. Reactivity

Reactivity	No test data specifically related to reactivity available for this product or its ingredients.
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10.2. Chemical stability

Stability	No particular stability concerns.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Acids. Oxidising agents.
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10.5. Incompatible materials

Materials to avoid	Keep away from oxidising materials, heat and flames.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m ³ .
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SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	Repeated exposure may cause skin dryness or cracking.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	The product is not expected to be hazardous to the environment.
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12.1. Toxicity

	The product is not believed to present a hazard due to its physical nature.
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12.2. Persistence and degradability

Persistence and degradability	The product is biodegradable.
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12.3. Bio accumulative potential

Bio accumulative potential	No data available on bioaccumulation.
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12.4. Mobility in soil

Mobility	The product is soluble in water.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB
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12.6 Other adverse effects

Other adverse effects	None known
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SECTION 13 DISPOSAL CONSIDERATION

13.1 Waste treatment methods

General information	Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Containers should be thoroughly emptied before disposal because of the risk of an explosion.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number


UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S.
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S.
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S.
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S.

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4.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID label	3
IMDG class	3
ICAO class/division	3
Transport labels	

14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

SECTION 15 REGULATORY INFORMATION

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and

	<p>Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</p>
Guidance	<p>Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations CHIP for everyone HSG228.</p>

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

Section 16 OTHER INFORMATION

Revision date	07/03/2020
Revision	01
SDS Number	HSG01
Risk phases in full	<p>R10 Flammable. R11 Highly flammable. R22 Harmful if swallowed. R36 Irritating to eyes. R38 Irritating to skin. R41 Risk of serious damage to eyes. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.</p>
Hazard statements in full	<p>H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H319 Causes serious eye irritation.</p>

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.