



## Safety data sheet

Compliant with Annex II of REACH - Regulation 2015/830

### SECTION 1. Identification of the substance or mixture and of the company / undertaking

#### 1.1. Product identifier

Code: VR1000-VR5000

Name: Alcohol Hand Sanitiser Gel

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

Description / Use                      Sanitizing alcohol gel.

#### 1.3. Details of the supplier of the safety data sheet

Business name

**OX TOOLS UK**  
Unit 2 Riverside,  
Kangley Bridge Road,  
London SE26 5DA  
United Kingdom

Location and state

tel. 0044 (0)20 8676 9990

e-mail of the competent person,  
responsible for the safety data sheet

[sales.uk@oxtools.com](mailto:sales.uk@oxtools.com)

#### 1.4. Emergency telephone number

For urgent information contact

0044 (0)1424 20 55 44

### SECTION 2. Hazards identification

#### 2.1. Substance or mixture classification

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet in compliance with the provisions of Regulation (EU) 2015/830. Any additional information regarding risks to health and / or the environment are given in sect. 11 and 12 of this sheet.

Hazard classification and indications:

Flammable liquid, category 2

H225

Highly flammable liquid and vapor.



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## 2.2. Label elements

Hazard labelling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms:



Warnings:

Danger

Hazard statements:

**H225** Highly flammable liquid and vapor.

Precautionary statements:

**P210** Keep away from heat, hot surfaces, sparks, open flames or other sources of ignition. Not smoking.  
**P280** Protect the eyes and face.  
**P370 + P378** In case of fire: use carbon dioxide, foam, chemical powder to extinguish.  
**P233** Keep container tightly closed.

## 2.3. Other dangers

Based on the available data, the product does not contain PBT or vPvB substances in a percentage higher than 0.1%.

## SECTION 3. Composition / information on ingredients

### 3.2. Mixtures

It Contains:

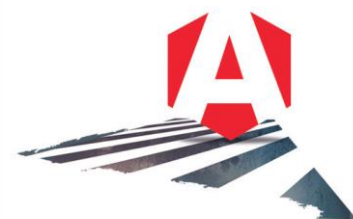
Identification	x = Conc.%V/V	Classification 1272/2008 (CLP)
<b>ETHANOL</b>		
CAS 64-17-5	70 ≤ x <77	Flam. Liq. 2 H225
CE 200-578-6		
INDEX 603-002-00-5		

The full text of the hazard statements (H) is given in section 16 of the sheet.



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## SECTION 4. First aid measures

### 4.1. Description of first aid measures

There are no known episodes of damage to personnel assigned to use the product. In case of need, the following general measures are adopted:

**INHALATION:** Take the subject to fresh air. If breathing stops, give artificial respiration. See a doctor immediately.

**INGESTION:** Get medical attention immediately. Induce vomiting only if directed by your doctor. Do not give anything by mouth if the person is unconscious.

**EYES and SKIN:** Wash with plenty of water. In case of persistent irritation, consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

No specific information is known about the symptoms and effects caused by the product.

### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## SECTION 5. Firefighting measures

### 5.1. Fire fighting

#### SUITABLE EXTINGUISHING MEDIA

The extinguishing media are: carbon dioxide, foam, chemical powder. For leaks and spills of the product that have not ignited, nebulized water can be used to disperse flammable vapours and protect people committed to stopping the leak.

#### UNSUITABLE EXTINGUISHING MEDIA

Do not use water jets. Water is not effective in extinguishing the fire, however it can be used to cool closed containers exposed to flame, preventing bursts and explosions.

### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF A FIRE

Overpressure may occur in containers exposed to fire with risk of explosion. Avoid breathing combustion products.

### 5.3. Recommendations for firefighters

#### GENERAL INFORMATIONS

Cool the containers with jets of water to avoid product decomposition and the development of substances potentially hazardous for health. Always wear equipment complete with fire protection. Collect extinguishing water which must not be discharged into the sewer. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

#### EQUIPMENT

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and boots for the Fire Brigade (HO A29 or A30).

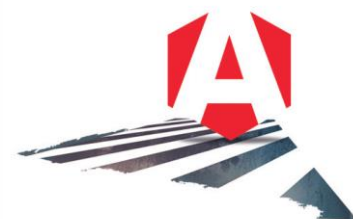


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## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Stop the leak if there is no danger.

Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers and for emergency interventions.

Keep unprotected persons away. Use explosion-proof equipment. Eliminate any source of ignition (cigarettes, flames, sparks, etc.) or heat from the area where the leak has occurred.

### 6.2. Environmental precautions

Prevent the product from entering drains, surface waters, groundwater.

### 6.3. Methods and materials for containment and cleaning up

Aspirate the spilled product in a suitable container. Assess the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Provide sufficient ventilation of the place affected by the leak. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

### 6.4. Reference to other sections

Any information regarding personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for Safe Handling

Keep away from heat, sparks and open flames, do not smoke or use matches or lighters. Vapours may ignite with explosion, therefore accumulation must be avoided by keeping doors and windows open and ensuring cross ventilation. Without adequate ventilation, the vapours can accumulate on the ground and ignite even at a distance, if ignited, with the risk of backfire. Avoid the accumulation of electrostatic charges. Connect to an earth socket in the case of large packagings during transfer operations and wear antistatic shoes. The strong agitation and the vigorous flow of the liquid in the pipes and equipment can cause the formation and accumulation of electrostatic charges. To avoid the risk of fire and explosion, never use compressed air when handling. Open the containers carefully, because they can be under pressure. Do not eat, drink or smoke during use. Avoid dispersal of the product in the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep containers closed, in a well-ventilated place, away from direct sunlight. Store in a cool, well-ventilated place, away from heat, open flames, sparks and other sources of ignition. Keep containers away from any incompatible materials, checking section 10.



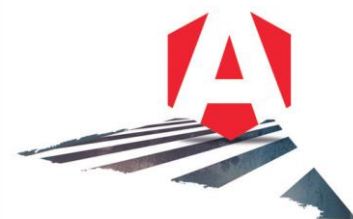
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### 7.3. Specific end uses

Information not available

## SECTION 8. Exposure controls / personal protection

### 8.1. Control parameters

Information not available

### 8.2. Exposure controls

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local extraction.

#### HAND PROTECTION

Protect your hands with category III work gloves (ref. standard EN 374).

For the final choice of the material of the work gloves, the following must be considered: compatibility, degradation, breaking time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it cannot be foreseen. The gloves have a wear time that depends on the duration and mode of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (ref. Regulation 2016/425 and EN ISO 20344). Wash with soap and water after removing protective clothing.

Evaluate the advisability of providing antistatic clothing in case the work environment presents a risk of explosiveness.

#### EYE PROTECTION

It is recommended to wear airtight protective glasses (ref. Standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is advisable to wear an AX filter mask whose use limit will be defined by the manufacturer (ref EN 14387 standard). If gases or vapours of a different nature and / or gases or vapours with particles (aerosols, fumes, mists, etc.) are present, combined filters must be provided.

The use of respiratory protection means is necessary if the technical measures adopted are not sufficient to limit the worker exposure to the threshold values taken into consideration. The protection offered by the masks is however limited.

In case the substance considered is odourless or its olfactory threshold is higher than the relative TLV-TWA and in case of emergency, wear an open circuit compressed air breathing apparatus (ref. Standard EN 137) or a plug-in respirator outdoor air (ref. standard EN 138). For the correct choice of the respiratory protection device, refer to EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including those from ventilation equipment, should be checked for compliance with environmental protection legislation.



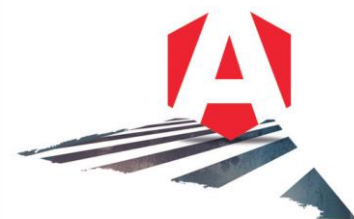
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## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	gelatinous liquid	
Color	transparent	
Smell	Typical alcoholic	
Odor threshold	Not determined	
pH	6.5	Concentration: As such
Melting point / freezing point	Not determined	
Initial boiling point	> 35 ° C	
Boiling range	Not determined	
Flash point	<23 ° C	
Evaporation rate	Not determined	
Flammability of solids and gases	Not applicable	
Lower flammability limit	Not determined	
Upper flammability limit	Not determined	
Lower explosive limit	Not determined	
Upper explosive limit	Not determined	
Vapor pressure	Not determined	
Vapor density	Not determined	
Relative density	0.820 / 0.850	
Solubility	soluble	
Partition coefficient: n-octanol / water:	Not determined	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
Viscosity	Not determined	
Explosive properties	Not applicable	
Oxidizing properties	Non oxidizing	

### 9.2. Other information

Information not available



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## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use.

### 10.2. Chemical stability

The product is stable under normal conditions of use and storage.

### 10.3. Possibility of dangerous reactions

Vapours can form explosive mixtures with air.

#### ETHANOL

Explosion hazard in contact with: alkali metals, alkaline oxides, calcium hypochlorite, sulfur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidizing agents, nitrogen dioxide. May react dangerously with: bromine acetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium chloride (IV), zirconium iodide (IV). Form explosive mixtures with: air.

### 10.4. Conditions to avoid

Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid any source of ignition.

#### ETHANOL

Avoid exposure to: heat sources, open flames.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

By thermal decomposition or in case of fire, gases and vapours potentially harmful to health can be released.

## SECTION 11. Toxicological information

There are no known episodes of damage to health due to exposure to the product. In any case, it is recommended to operate in compliance with the rules of good industrial hygiene.

### 11.1. Information on toxicological effects



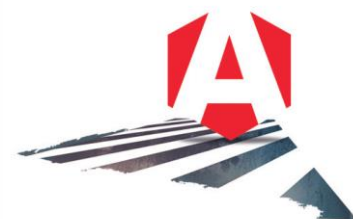
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Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects and and chronic effects from short and long term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

LD50 (Oral) of the mixture:

LD50 (Dermal) of the mixture:

Not classified (no relevant component)

Not classified (no relevant component)

Not classified (no relevant component)

ETHANOL

LD50 (Oral)> 5000 mg / kg Rat

LC50 (Inhalation) 120 mg / l / 4h Pimephales promelas

SKIN CORROSION / SKIN IRRITATION

It does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / EYE IRRITATION

It does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN AWARENESS

It does not meet the classification criteria for this hazard class



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MUTAGENICITY ON GERMINAL CELLS

It does not meet the classification criteria for this hazard class

CARCINOGENICITY

It does not meet the classification criteria for this hazard class

REPRODUCTION TOXICITY

It does not meet the classification criteria for this hazard class

SPECIFIC TOXICITY FOR TARGET ORGANS (STOT) - SINGLE EXPOSURE

It does not meet the classification criteria for this hazard class

SPECIFIC TOXICITY FOR TARGET ORGANS (STOT) - REPEATED EXPOSURE

It does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 998

**SECTION 12. Ecological information**

Use according to good working practices, avoiding to disperse the product in the environment. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation.

**12.1. Toxicity**

Information not available

**12.2. Persistence and degradability**

ETHANOL

Solubility in water

1000 - 10000 mg / l

Rapidly degradable

**12.3. Bioaccumulative potential**



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ETHANOL  
Partition coefficient: n-octanol / water -0.35

#### 12.4. Mobility in the soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

Based on the available data, the product does not contain PBT or vPvB substances in a percentage higher than 0.1%.

#### 12.6. Other adverse effects

Information not available

### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse if possible. Product residues are to be considered special hazardous waste. The hazardous nature of the waste which partially contains this product must be assessed on the basis of the laws in force.

Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local regulations.

The transport of waste can be subject to ADR.

#### CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

### SECTION 14. Transport information

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1170

#### 14.2. UN proper shipping name

ADR / RID: ETHANOL (ETHYL ALCOHOL) or ETHANOL IN SOLUTION (ETHYL ALCOHOL IN SOLUTION)

IMDG: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

IATA: ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

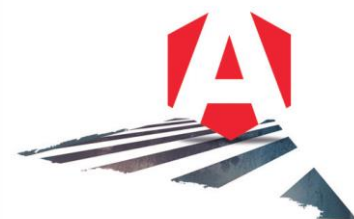
#### 14.3. Transport hazard class (es)



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ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3

#### 14.4. Packing group

ADR / RID, IMDG, IAT II

#### 14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

#### 14.6. Special precautions for users

ADR / RID:	HIN - Kemler: 33 Special Provision: -	Limited quantities: 1 L	Tunnel restriction code: (D / E)
IMDG:	EMS: FE, SD	Limited quantities: 1 L	
IATA:	Cargo: Pass .: Special instructions:	Maximum quantity: 60 L Maximum quantity: 5 L A3, A58, A180	Packaging Instructions: 364 Packaging Instructions: 353

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not relevant information

## SECTION 15. Regulatory information

#### 15.1. Health, safety and environmental standards and legislation specific for the substance or mixture

Seveso category - Directive 2012/18 / EC: P5c

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006



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Product  
Point 3 - 40

Substances in Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in a percentage higher than 0.1%.

Substances subject to authorization (Annex XIV REACH)

None

Substances subject to export notification obligation Reg. (CE) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

Information not available

**15.2. Chemical safety assessment**

**SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

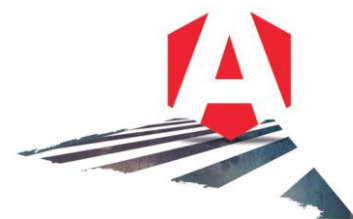
<b>Flam. Liq. 2</b>	Flammable liquid, category 2
<b>H225</b>	Highly flammable liquid and vapor.

**LEGEND:**



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- ADR: European agreement for the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service number
- EC50: Concentration that gives effect to 50% of the test population
- CE NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Global harmonized system for the classification and labelling of chemical products
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Immobilization concentration of 50% of the test population
- IMDG: International maritime code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulations for the international transport of dangerous goods by train
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded during any moment of the work exposure.
- TWA STEL: Short term exposure limit
- TWA: Weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Aquatic hazard class (Germany).

#### GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
  2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
  3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
  6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
  7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
  8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
  9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
  10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
  11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)



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- Patty - Industrial Hygiene and Toxicology
- NI Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA Agency website
- Database of SDS models of chemicals - Ministry of Health and Higher Institute of Health

Note for the user:

The information contained in this sheet is based on the knowledge available from us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.

This document must not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. We do not take responsibility for improper use.

Provide adequate training to personnel involved in the use of chemicals.

Changes from the previous revision

Changes have been made to the following sections:

14.



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