SAFETY DATA SHEET
ORCAGEL HAND GEL 70%

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

1.1. Product identifier

Product name ORCAGEL HAND GEL 70%

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

Identified uses Hand Sanitiser.

1.3. Details of the supplier of the safety data sheet

Supplier

OrcaGel
Blackhouse Circle,
Blackhouse Industrial Estate,
Peterhead, AB42 1BN
+44 (0)1779 871945
info@orcagel.com

1.4. Emergency telephone number

Emergency telephone OrcaGel +44 (0)1779 871945 (Mon-Fri) 09:00 - 17:00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

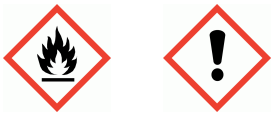
Physical hazards Flam. Liq. 3 - H226

Health hazards Eye Irrit. 2 - H319

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

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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 equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face 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 foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANOL (ETHYL ALCOHOL) **60-100%**

CAS number: 64-17-5

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319

HYDROGEN PEROXIDE **<1%**

CAS number: —

Classification
Ox. Liq. 1 - H271
Acute Tox. 4 - H302
Acute Tox. 4 - H332
Skin Corr. 1A - H314
Eye Dam. 1 - H318
STOT SE 3 - H335

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

Inhalation Due to the small packaging, the risk of inhalation is minimal.

Ingestion Do not induce vomiting. Get medical attention immediately.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Get medical attention.

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

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Inhalation No specific symptoms known.

Ingestion May cause nausea, headache, dizziness and intoxication.

Skin contact None known.

Eye contact May cause severe eye irritation.

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

Notes for the doctor No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, fog or mist. Carbon dioxide or dry powder. Dry chemicals.

5.2. Special hazards arising from the substance or mixture

Specific hazards Extremely flammable liquid and vapour. May form explosive mixture with air at very high concentration.

Hazardous combustion products Oxides of carbon.

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains, water courses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

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Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Long term exposure limit (8 hour TWA):
•1000 ppm
•1920 mg/m3
Short term exposure limit – N/A

HYDROGEN PEROXIDE

Long-term exposure limit (8-hour TWA): WEL 1 ppm 1.4 mg/m³
Short-term exposure limit (15-minute): WEL 2 ppm 2.8 mg/m³
WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Not applicable.

Personal protection Materials for protective clothing: GIVE EXCELLENT RESISTANCE: butyl rubber. viton. GIVE GOOD RESISTANCE: neoprene. tetrafluoroethylene. GIVE LESS RESISTANCE: nitrile rubber. polyethylene. GIVE POOR RESISTANCE: natural rubber. PVA. PVC.

Eye/face protection No specific eye protection required during normal use. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection Not applicable.

Other skin and body protection Not applicable.

Hygiene measures Do not smoke in work area. Discard contaminated shoes and clothing.

Respiratory protection Not applicable.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid

Colour Colourless.

Odour Alcohol odour. Pleasant odour.

pH 6.0 - 7.5

Melting point -114 °C / -173.2 °F

Initial boiling point and range 78 °C / 172.4 °F

Flash point ~ 21°C Closed cup.

Flammability (solid, gas) Highly flammable liquid and vapour.

Upper/lower flammability or explosive limits Lower flammable/explosive limit: 3.3 % Upper flammable/explosive limit: 19 %

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Relative density	~ 0.83 @ 20°C
Solubility(ies)	789g/L@ 20 °C
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Molecular weight	46.07

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability	No particular stability concerns.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid	Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Summary	Not classified.

Acute toxicity - dermal

Summary	Not classified

Acute toxicity - inhalation

Summary	Not classified.

Skin corrosion/irritation

Summary	No adverse effect observed

Serious eye damage/irritation

Summary	Eye Irritation

Respiratory sensitisation

Summary	No adverse effect observed

Skin sensitisation

Summary	No sensitising effect known.

Germ cell mutagenicity

Summary	Based on available data, the classification criteria are not met.

Carcinogenicity

Summary	Does not contain any substances known to be carcinogenic.

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Reproductive toxicity

Summary Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure

Summary Not Classified

Specific target organ toxicity - repeated exposure

Summary Not classified

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation No specific health hazards known.

Ingestion May cause nausea, headache, dizziness and intoxication.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Irritating to eyes. Symptoms following overexposure may include the following: Redness.

SECTION 12: Ecological information

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

12.1. Toxicity

Toxicity The product is not expected to be toxic to aquatic organisms.

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility Soluble in water.

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.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Waste is classified as hazardous waste. Dispose of waste product or used containers in accordance with local regulations Contaminated Packaging
Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapour), and can be dangerous. Keep product and empty container away from heat and sources of ignition.
European Waste Catalogue (EWC)
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14: Transport information

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14.1. UN number

UN No. (ADR/RID)	1170
UN No. (IMDG)	1170
UN No. (ICAO)	1170
UN No. (ADN)	1170

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Proper shipping name (IMDG)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Proper shipping name (ICAO)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Proper shipping name (ADN)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels

14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	3
Emergency Action Code	•2Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations

•CDG: Carriage of dangerous goods
•CHIP: Chemicals (Hazard Information and Packaging for Supply)
•CLP: Classification, Labelling and Packaging of Substances and Mixtures (CLP Regulation), adopting in the EU the Globally Harmonised System (GHS)
•COSHH: Control of substances hazardous to health
•DSEAR: The Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR)
•REACH: Registration, Evaluation, Authorisation & restriction of CHemicals (REACH)

15.2. Chemical safety assessment

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

CASChemical Abstracts Service
CDGCarriage of dangerous goods
CHIPChemicals (Hazard Information and Packaging for Supply)
CLPClassification, Labelling and Packaging of Substances and Mixtures Regulation
COSHH Control of substances hazardous to health
DSEARDangerous Substances and Explosive Atmospheres Regulations 2002
EC50 Effective Concentration 50%
EWCEuropean Waste Code
LC50 Lethal Concentration 50%
LD50 lethal Dose 50%
PBTPersistent, bioaccumulative and toxic substances
REACHRegistration, Evaluation, Authorisation & restriction of CHemicals (REACH)
TWATime Weighted Average
VOCVolatile Organic Compound
VPvBVery high persistent, bioaccumulative and toxic substances
WELWorkplace Exposure Limit

General information Use biocides safely. Always read the label and product information before use. Only trained personnel should use this material.

Key literature references and sources for data Where Exposure Scenarios for the substances listed in Section 3 are available they have been assessed for the uses identified in this data sheet or on the product label and the appropriate relevant information is incorporated into this Safety Data Sheet.

Revision date 25/06/2020

Revision 8

Supersedes date 24/06/2020

SDS number 23313

Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

DIRECTIONS FOR USE

PRODUCT LOGO

ORCAGEL HAND GEL 70%

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, many of which are solely within the user's knowledge and control, the user is responsible for determining whether the usage of this product is fit for a particular purpose and suitable for the user's method of use or application. It is essential that the user, not the manufacturer, evaluates this product to determine whether it is fit for a particular purpose and suitable for the user's method of use or application.