



## SAFETY DATA SHEET

### ORCA 70% ALCOHOL SURFACE DISINFECTANT SPRAY 500ml

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

##### 1.1. Product identifier

**Product name** ORCA 70% ALCOHOL SURFACE DISINFECTANT SPRAY 500ml

**Container size** 500ml

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

**Identified uses** Surface disinfectant

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

**Supplier** Orca Hygiene  
Blackhouse Circle,  
Blackhouse Industrial Estate,  
Peterhead, AB42 1BN  
+44 (0)1779 871945  
technical@orcahygiene.com

**Manufacturer** Orca Hygiene  
Blackhouse Circle,  
Blackhouse Industrial Estate,  
Peterhead, AB42 1BN  
+44 (0)1779 871945  
technical@orcahygiene.com

##### 1.4. Emergency telephone number

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

**National emergency telephone number** For the emergency services - the ambulance, police and fire services - Tel: 999 /  
When you need medical advice or treatment but it is not an emergency - Tel: 111

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Aerosol 1 - H222, H229

**Health hazards** Eye Irrit. 2 - H319

**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Hazard pictograms



**Signal word** Danger

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<b>Hazard statements</b>	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H319 Causes serious eye irritation.
<b>Precautionary statements</b>	P102 Keep out of reach of children. P101 If medical advice is needed, have product container or label at hand. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501 Dispose of contents/ container in accordance with regional regulations.

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>ethanol</b>		<b>60-100%</b>
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
<b>Classification</b> Flam. Liq. 2 - H225		
<b>propane</b>		<b>5-10%</b>
CAS number: 74-98-6	EC number: 200-827-9	
<b>Classification</b> Press. Gas (Comp.) - H280		
<b>BUTANE</b>		<b>1-5%</b>
CAS number: 106-97-8	EC number: 203-448-7	
<b>Classification</b> Press. Gas (Comp.) - H280		
<b>ISOBUTANE</b>		<b>1-5%</b>
CAS number: 75-28-5	EC number: 200-857-2	
<b>Classification</b> Press. Gas		

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** First aid personnel should wear appropriate protective equipment during any rescue.

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<b>Inhalation</b>	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Due to the physical nature of this product, it is unlikely that ingestion will occur.
<b>Skin contact</b>	May cause irritation to skin. May cause dermatitis.
<b>Eye contact</b>	Check for and remove any contact lenses. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system
<b>Ingestion</b>	May cause nausea, headache, dizziness and intoxication. The product is considered to be a low hazard under normal conditions of use.
<b>Skin contact</b>	May cause sensitisation by skin contact.
<b>Eye contact</b>	Irritating to eyes. Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with Carbon Dioxide, Dry Chemical and Foam.
<b>Unsuitable extinguishing media</b>	Do not use heavy water stream.

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

<b>Specific hazards</b>	Extremely flammable liquid and vapour.
<b>Hazardous combustion products</b>	Acrid smoke or fumes.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid the spillage or runoff entering drains, sewers or watercourses. Do not use water jet as an extinguisher, as this will spread the fire. Warn firefighters that aerosols are involved.
<b>Special protective equipment for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Eliminate all sources of ignition. Ensure procedures and training for emergency decontamination and disposal are in place. Follow precautions for safe handling described in this safety data sheet. Provide adequate ventilation.
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**For non-emergency personnel** Evacuate unnecessary personnel. Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

**For emergency responders** Ensure adequate ventilation. Wear personal protective equipment as described in section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Clean contaminated objects and areas thoroughly, observing environmental regulations. Contain spillages with sand or other suitable absorbent material. Do not allow to enter sewerage system, drinking water supplies or waterways. The product components are not classified as environmentally hazardous.

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

### 6.4. Reference to other sections

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with eyes.

**Advice on general occupational hygiene** Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

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

**Storage precautions** Do not expose to temperatures exceeding 50°C/122°F. The product does not require special storage measures.  
As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided.  
Keep away from oxidising agents and from highly acidic or alkaline materials.  
Store according to local legislation. Observe indications on the label.  
The product is not affected by Directive 2012/18/EU (SEVESO III).

### 7.3. Specific end use(s)

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

**Usage description** ALCOHOL SANITIZER AEROSOL

## 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/m<sup>3</sup>

##### **propane**

Long-term exposure limit (8-hour TWA): WEL 1800 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 7200 mg/m<sup>3</sup>

##### **BUTANE**

Long-term exposure limit (8-hour TWA): WEL 600 ppm 1450 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 750 ppm 1810 mg/m<sup>3</sup>

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### ISOBUTANE

Long-term exposure limit (8-hour TWA): WEL 2400 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 9600 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

All handling should only take place in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice. Keep away from naked flames and heat.

##### Personal protection

Do not eat, drink or smoke when using this product.

##### Eye/face protection

Chemical goggles or safety glasses.

##### Hand protection

Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

##### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

##### Hygiene measures

Do not eat, drink or smoke when using this product.

##### Respiratory protection

No specific requirements are anticipated under normal conditions of use.

##### Environmental exposure controls

No special requirements under normal use conditions.

### SECTION 9: Physical and chemical properties

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

Appearance	Aerosol
Colour	Colourless.
Odour	Citrus.
pH	7.0-8.0
Melting point	-114 °C / -173.2 °F
Initial boiling point and range	78 °C / 172.4 °F
Flash point	12.85 - 13 °C
Flammability (solid, gas)	Highly flammable liquid and vapour.
Upper/lower flammability or explosive limits	NOT EXPLOSIVE
Vapour pressure	57.26 hPa @ 19.6°C
Relative density	0.789
Solubility(ies)	789g/L@ 20 °C

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**Partition coefficient** -0.35 @ 20 - 24 °C

**Auto-ignition temperature** 363 °C / 685.4 °F

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

**Reactivity** No hazardous reactions if stored and handled as prescribed.

##### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

##### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** No hazardous reactions known under normal storage and use conditions.

##### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time. Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

##### 10.5. Incompatible materials

**Materials to avoid** No specific requirements are anticipated under normal conditions of use.

##### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Acrid smoke or fumes.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

##### Toxicological information on ingredients.

##### ethanol

##### Skin corrosion/irritation

**Summary** No data available.

##### Serious eye damage/irritation

**Summary** Eye Irritation

##### Respiratory sensitisation

**Summary** No data available

##### Skin sensitisation

**Summary** No data available

##### Germ cell mutagenicity

**Summary** No data is available on this product.

##### Carcinogenicity

**IARC carcinogenicity** IARC Group 1 Carcinogenic to humans.

##### Reproductive toxicity

**Summary** No data is available on this product.

##### Specific target organ toxicity - single exposure

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**Summary** No data available

### Specific target organ toxicity - repeated exposure

**Summary** No data available

### Aspiration hazard

**Summary** No data available

**Acute and chronic health hazards** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## SECTION 12: Ecological information

### Ecological information on ingredients.

#### ethanol

**Ecotoxicity** Do not empty into drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

### 12.1. Toxicity

#### Ecological information on ingredients.

#### ethanol

#### Acute aquatic toxicity

**Acute toxicity - fish** Fathead minnow  
(Pimephales promelas)  
LC50 = 14200 mg/l/96h

**Acute toxicity - aquatic invertebrates** EC50 = 9268 mg/L/48h  
EC50 = 10800 mg/L/24h

**Acute toxicity - aquatic plants** EC50 (72h) = 275 mg/l  
(Chlorella vulgaris)

### 12.2. Persistence and degradability

#### Ecological information on ingredients.

#### ethanol

**Persistence and degradability** Persistence is unlikely based on information available.

### 12.3. Bioaccumulative potential

**Partition coefficient** -0.35 @ 20 - 24 °C

#### Ecological information on ingredients.

#### ethanol

**Bioaccumulative potential** No information available.

**Partition coefficient** Not available.

### 12.4. Mobility in soil

#### Ecological information on ingredients.

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## ethanol

### Mobility

Will likely be mobile in the environment due to its volatility.

### 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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>General information</b>	Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.
<b>Disposal methods</b>	Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.
<b>Waste class</b>	16 05 04: Empty aerosol.

## SECTION 14: Transport information

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels





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### 14.4. Packing group

ADR/RID packing group	None
IMDG packing group	None
ICAO packing group	None
ADN packing group	None

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

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

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

### 15.2. Chemical safety assessment

## SECTION 16: Other information

Revision date	23/11/2020
Revision	3
Supersedes date	23/11/2020
SDS number	23635
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H319 Causes serious eye irritation.

**DIRECTIONS FOR USE**

**PRODUCT LOGO**