



SAFETY DATA SHEET

S17 ADVANCED+ VIRUCIDAL SURFACE DISINFECTANT CONCENTRATE

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

1.1. Product identifier

Product name S17 ADVANCED+ VIRUCIDAL SURFACE DISINFECTANT CONCENTRATE

Product number S17

UFI UFI: 9K95-K0UH-000P-4WFT

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

Identified uses Surface disinfectant

Uses advised against Do not use for personal cleansing.

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

1.4. Emergency telephone number

Emergency telephone +44 (0)1779 871945

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 Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Contains DIDECYLDIMETHYLAMMONIUM CHLORIDE

Biocide Labelling This product contains substances with biocidal properties.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Water		60-100%
CAS number: 7732-18-5		
Classification		
Not Classified		
DIDECYLDIMETHYLAMMONIUM CHLORIDE		<1%
CAS number: 7173-51-5	EC number: 230-525-2	REACH registration number: 01-2119945987-15-XXXX
M factor (Acute) = 10		
Classification		
Acute Tox. 4 - H302		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Aquatic Acute 1 - H400		
Aquatic Chronic 2 - H411		

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	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Ingestion	Give plenty of water to drink. Rinse mouth thoroughly with water.
Skin contact	In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Get medical attention if irritation persists after washing.
Eye contact	Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	The product is considered to be a low hazard under normal conditions of use.
Inhalation	May cause discomfort.
Ingestion	May cause discomfort if swallowed.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Prolonged and frequent contact may cause redness and irritation.
Eye contact	May be slightly irritating to eyes.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable.
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5.2. Special hazards arising from the substance or mixture

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5.3. Advice for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions No action required - substance is not hazardous in normal use.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Collect and place in suitable waste disposal containers and seal securely.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. If the product is soluble in water, dilute the spillage with water and mop it up. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Do not handle until all safety precautions have been read and understood.

Advice on general occupational hygiene Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at temperatures between 10°C and 25°C. Store in accordance with national regulations. Store away from incompatible materials (see Section 10). Keep containers upright.

Storage class Non-flammable

7.3. Specific end use(s)

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

2-AMINOETHANOL

Long-term exposure limit (8-hour TWA): WEL 3 ppm 7.6 mg/m³

Short-term exposure limit (15-minute): WEL 6 ppm 15 mg/m³

propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

WEL = Workplace Exposure Limit.

Potassium Carbonate Granular (CAS: 584-08-7)

DNEL

Workers - Inhalation; Long term local effects: 10 mg/m³

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DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

DNEL

Derived No Effect Level (DNEL)

PNEC

Predicted No Effect Concentration (PNEC)

8.2. Exposure controls

Appropriate engineering controls

Ensure control measures are regularly inspected and maintained. Provide adequate ventilation. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Good personal hygiene procedures should be implemented. When using do not eat, drink or smoke. Warn cleaning personnel of any hazardous properties of the product.

Environmental exposure controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Hazy/cloudy liquid.
Colour	Colourless to pale yellow.
Odour	Characteristic.
Odour threshold	Not available.
pH	pH (concentrated solution): 10 - 11
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	~ 1.00 - 1.01
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Non-viscous
Explosive properties	Not considered to be explosive.

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Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No information required.

Volatile organic compound Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable at normal ambient temperatures and when used as recommended.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other health effects No information available.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation May be slightly irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation There may be irritation and redness.

Respiratory sensitisation

Respiratory sensitisation There may be irritation of the throat with a feeling of tightness in the chest.

Skin sensitisation

Skin sensitisation May cause sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Reproductive toxicity

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Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard No significant hazard.

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation May cause discomfort.

Ingestion May cause discomfort if swallowed.

Skin contact May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact May be slightly irritating to eyes. May cause discomfort.

Toxicological information on ingredients.

DIDECYLDIMETHYLAMMONIUM CHLORIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 658.0

Species Rat

ATE oral (mg/kg) 500.0

Skin corrosion/irritation

Summary Skin irritation.

Serious eye damage/irritation

Summary Eye Irritation

Respiratory sensitisation

Summary No data available

Skin sensitisation

Summary Negative

Germ cell mutagenicity

Summary Negative

Carcinogenicity

Summary No data available.

Specific target organ toxicity - single exposure

STOT - single exposure May cause drowsiness or dizziness

Specific target organ toxicity - repeated exposure

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STOT - repeated exposure No information available.

Aspiration hazard

Summary No data available

General information

Systemic effects:

After absorption:

Headache, Dizziness, inebriation, narcosis, Unconsciousness

After uptake:

respiratory paralysis, Coma

Under given conditions, contact with nitrites or nitric acid can lead to the formation of nitrosamines, which have shown themselves to be carcinogenic in animal experiments.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity No data recorded.

Ecological information on ingredients.

DIDECYLDIMETHYLAMMONIUM CHLORIDE

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC₅₀ Danio rerio (zebra fish): 0,49 mg/l; 96 h

Acute toxicity - aquatic invertebrates EC₅₀ Daphnia magna (Water flea): 0,057 mg/l; 48 h

12.2. Persistence and degradability

Ecological information on ingredients.

DIDECYLDIMETHYLAMMONIUM CHLORIDE

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Partition coefficient Not available.

Ecological information on ingredients.

DIDECYLDIMETHYLAMMONIUM CHLORIDE

Bioaccumulative potential No information available.

12.4. Mobility in soil

Ecological information on ingredients.

DIDECYLDIMETHYLAMMONIUM CHLORIDE

Mobility No data available.

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12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

DIDECYLDIMETHYLAMMONIUM CHLORIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information This material and its container must be disposed of in a safe way. 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.

Disposal methods Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

National regulations EH40/2005 Workplace exposure limits.

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EU legislation	<p>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> <p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).</p> <p>Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).</p>
Health and environmental listings	This product is classified as a biocide, under The Biocidal Product Regulation (BPR, Regulation (EU) 528/2012)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>CAS: Chemical Abstracts Service.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Classification abbreviations and acronyms	<p>Skin Irrit. = Skin irritation</p> <p>Skin Sens. = Skin sensitisation</p>
Revision date	14/10/2020
Revision	2
Supersedes date	07/10/2020
SDS number	23573
Hazard statements in full	<p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p> <p>H400 Very toxic to aquatic life.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>

DIRECTIONS FOR USE

PRODUCT LOGO

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.