



D500

# MICROSAN 1 LITRE SPRAY®

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. **Product Identifier:** MICROSAN 1 LITRE SPRAY      **Product Code:** D500

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

Antimicrobial spray cleaner for carpets, fabrics and hard surfaces.

Bactericide, viricide with USA and European registrations. Antimicrobial Efficacy & Standards (applicable to the active ingredient):- European Test Standard EN1276, Bacteria including - E coli, MRSA, Listeria, Salmonella, Legionella. Virus including - Hepatitis B, HIV-1 (Aids), Herpes simplex, Influenza A (H1N1), Avian Influenza H3N8 / H5N1 (EN14476).

(Contains 6% solution of D500 Microsan Concentrate)

Always wear protective gloves, overalls, mask and eye protection when cleaning blood, bodily fluids and sewage material.

Scrape or blot up all excess soiling.

Microsan 1 litre spray is ready-to-use.

Carpets, fabrics and other sensitive surfaces should always be pre-tested for colour fastness, texture change and suitability before proceeding.

Apply solution by sprayer to contaminated surfaces and allow 15 minutes contact time before wiping, blotting or rinsing. For decontamination of Hepatitis B and HIV-1 virus allow a minimum of 30 minutes contact time before rinsing.

**1.3. Details of the supplier of the safety data sheet:**

Prochem Europe Ltd., Oakcroft Road, Chessington, Surrey KT9 1RH, UK. Telephone No (office hours 8am to 5pm, Monday to Friday only):

020 8974 1515 (UK) +44 20 8974 1515 (EC) Chemical Product Manager E, H & S

Website: www.prochem.co.uk Email: sales@prochem.co.uk

**1.4. Emergency telephone number:**

020 8974 1515 (UK) +44 20 8974 1515 (office hours 8am to 5pm, Monday to Friday only).

**Emergency Action:** In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department, who may seek advice from the **UK National Poisons Information Service**, where our full product details are held.

## SECTION 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture:**

CLASSIFICATION (1999/45/EC): Not classified.

**Most important adverse effects:**

**Eye Contact:** Contact with solution may cause moderate eye irritation.

**Skin Contact:** Prolonged or repeated contact with solution may cause irritation.

**Inhalation:** Excessive exposure to atomised spray may cause breathing irritation.

**Ingestion:** Ingestion of concentrate may produce irritation and possible systemic effects.

**Environment:** Raw materials are biodegradable. See Ecological Information for further details.

**2.2. Label elements:**

For professional and industrial use only.

Keep out of the reach of children.

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves.

**2.3. Other hazards:**

See section 8 for details of exposure limits.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

**3.2. Mixtures:**

SUBSTANCE	RISK (See Section 16)	H Statements	EINECS NO.	CAS NO.	% W/W (EC RANGE)
Didecylidimethylammonium chloride	C R34 Xn R22 N R50	Acute Tox 3 H301; Skin Corr 1B H314; Aquatic Acute 1 H400	230-525-2	7173-51-5	0.1 to 1%

## SECTION 4: FIRST AID MEASURES

**4.1. Description of first aid measures:**

**Eye Contact:** Flush immediately with water for 15 minutes, then seek medical attention if irritation persists.

**Skin Contact:** Wash skin with soap and water. Seek medical attention if any skin irritation persists.

**Inhalation:** Get fresh air and seek medical assistance if breathing is difficult.

**Ingestion:** Rinse out mouth and then drink plenty of water. If swallowed do not induce vomiting unless directed to do so by medical personnel. Seek medical advice immediately and show this container or label. Do not give anything by mouth if patient is unconscious.

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

Contact with eyes or skin may cause irritation. Ingestion may cause possible systemic effects.

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

Seek immediate medical attention if swallowed.

## SECTION 5: FIRE FIGHTING MEASURES

**5.1. Extinguishing Media:**

Product is not flammable. Use water, carbon dioxide, dry powder extinguisher, or other media appropriate for materials actually involved in fire.

**5.2. Special hazards arising from the substance or mixture:**

No explosion hazard. Exposure to fire may liberate small amounts of nitrogen oxides, hydrogen chloride and other organic gases in extreme heat.

### 5.3. Advice for firefighters:

Self contained breathing apparatus for large amounts involved in fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Wear protective clothing as described in section 8 of this sds.

### 6.2. Environmental precautions:

Raw materials are biodegradable and product is not classified as harmful to the environment.

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

Large spills should be treated with dry absorbent and disposed at legal waste disposal site. Small spills can be flushed with water to sewage drains linked to a waste treatment facility.

### 6.4. Reference to other sections:

See sections 8 and 13 for further information.

## **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling:

Wear nitrile rubber gloves and safety glasses when handling concentrate. Wash hands and clothing after use or spill. Do not eat or drink when handling chemicals.

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

Avoid extremes of temperature. Keep out of reach of children. Keep in original plastic container.

### 7.3. Specific end use(s):

Antimicrobial spray cleaner for carpets, fabrics and hard surfaces.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Control parameters:

Occupational exposure limits not assigned by HSE EH/40 or ACGIH.

### 8.2. Exposure controls:

**Eye/Face Protection:** Side shield safety glasses are recommended when handling or during spray application.

**Skin Protection:** Standard work clothing and nitrile rubber gloves. Protective gloves should be inspected for wear before use and replaced regularly in accordance with manufacturer's specifications.

**Respiratory Protection:** For situations where recommended exposure limits may be exceeded or where there is a risk of inhalation of fine spray mists, a respirator with ABEK P3 filter, or other suitable mask, is recommended.

**Ventilation:** Ensure adequate ventilation or use forced air fans.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

**Appearance:** Moderate foam clear straw liquid

**Odour:** Characteristic soapy alcohol.

**Odour Threshold:** Not determined

**pH Concentrate:** 9.5    **pH Diluted:** Not applicable.

**Melting point/freezing point °C:** Not determined

**Initial boiling point and boiling range °C:** 100

**Flash Point °C:** None    **Method:** Not applicable

**Evaporation Rate:** Not determined

**Flammability (solid, gas):** Not flammable

**Upper/lower flammability or explosive limits:** Not applicable

**Vapour Pressure:** Not determined

**Vapour Density:** Not determined

**Relative Density (Water = 1):** 1.00

**Solubility(ies):** Soluble

**Partition Coefficient (N-octanol / Water):** Not determined

**Auto-ignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Viscosity:** Not applicable

**Explosive Properties:** Not applicable

**Oxidising Properties:** Not applicable

**% Active:** 1.0334

**% Solids:** 0.5

### 9.2. Other Information:

None.

## **SECTION 10: STABILITY AND REACTIVITY**

### 10.1. Reactivity:

Stable under normal conditions.

### 10.2. Chemical stability:

Stable

### 10.3. Possibility of hazardous reactions:

Not determined.

### 10.4. Conditions to Avoid:

Extremes of temperature.

### 10.5. Incompatible materials:

Partial incompatibility with anionic detergents. Avoid strong oxidising or reducing agents.

### 10.6. Hazardous Decomposition Products:

Exposure to fire may liberate carbon dioxide, carbon monoxide, hydrogen chloride, nitrogen oxide, water and other unidentified thermal decomposition products from this product or its packaging.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects:

LD50 238mg/kg (oral-rat) (didecyldimethylammonium chloride);

LD50 3342mg/kg (dermal-rabbit) (didecyldimethylammonium chloride).

Ingestion may cause possible systemic effects.

### Irritation:

Contact with eyes may cause irritation.

Prolonged or repeated contact with skin may cause irritation and possible dermatitis.

Inhalation may cause possible transient respiratory irritation

from wetting agents in atomised spray form.

Product is mildly corrosive to mucous membranes.

**Corrosivity:** Not corrosive.

**Sensitisation:** None Known

**Repeated Dose Toxicity:** Not established

**Carcinogenicity:** No effects expected based upon current data.

**Mutagenicity:** No effects expected based upon current data.

**Toxicity for reproduction:** No effects expected based upon current data.

## **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity:

LC50 96h 0.19mg/l (fish) (didecyldimethylammonium chloride)

EC50 48h 0.062mg/l (daphnia) (didecyldimethylammonium chloride)

ErC50 96h 0.026mg/l (algae) (didecyldimethylammonium chloride)

EC50 3h 11mg/l (bacteria) (didecyldimethylammonium chloride)

### 12.2. Persistence and Degradability:

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. The major packaging materials of polyethylene and fibreboard are recyclable.

### 12.3. Bioaccumulative Potential:

Not known for preparation. Didecyldimethylammonium chloride does not bioaccumulate.

### 12.4. Mobility in soil:

Soluble in water.

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

Report not required.

### 12.6. Other adverse effects:

None known or no relevant data available for substances in this mixture.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1. Waste treatment methods:

Waste diluted cleaning effluent should be discharged to a sewage drain, which is linked to a local sewage and waste treatment facility.

Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site.

Contact local Environment Agency office for waste holder requirements.

## **SECTION 14: TRANSPORT INFORMATION**

### 14.1. UN number: None

**14.2. UN Proper Shipping Name:** None

**14.3. Transport hazard class(es):**

Road (ADR): None

Sea (IMDG): None

Rail (RID): None

**14.4. Packing Group:** None

**14.5. Environmental hazards:** None

**14.6. Special precautions for user:** No special precautions required other than those previously mentioned in this safety data sheet.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not intended to be carried as bulk.

## **SECTION 15: REGULATORY INFORMATION**

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

The information given has been compiled with reference to the **CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS (CHIP 4) 2009** (as amended), **REGULATION (EC) No 1272/2008 on CLASSIFICATION, LABELLING and PACKAGING of substances and mixtures**, the **REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH) REGULATIONS** (as amended), the **CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH) 2002** (as amended) **REGULATION (EC) NO. 648/2004 ON DETERGENTS** (as amended) and the **MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS 1999** (as amended). This safety data sheet does not constitute the users own assessment of workplace risk as required by other health and safety regulations.

**15.2. Chemical safety assessment**

Not currently available.

## **SECTION 16: OTHER INFORMATION**

**Full text of Risk phrases referred to in Section 2 and 3:**

R22 Harmful if swallowed. R34 Causes burns. R50 Very toxic to aquatic organisms.

**Full text of Hazard Statements referred to in Section 2 and 3:**

H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life.

For additional information on safety, training and use of this product, contact the supplier. This product is intended for professional use only.

The information given is intended to be of assistance to users but is without guarantee. Variations can occur in application and users are advised to conduct their own tests. Suggestions for use neither give nor imply any guarantee as to the intended use.

**Revisions:** Replaces SDS D500 Issue / Revision Date 28/03/11

Revised Sections: 1, 3, 7, 8, 9 16.