



**Product Specification &**

**SAFETY DATA SHEET**

CHIP / EC FORMAT (EC) 1907/2006



**D500**

**MICROSAN®**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product Name:** MICROSAN **Product Code:** D500

**Manufacturer:** 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

**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.

**Product Description & Directions For Use:**

Antimicrobial cleaning concentrate for carpets, fabrics and hard surfaces. Bactericide, fungicide, algicide, mildewcide, viricide with USA and European registrations. Antimicrobial Efficacy, Standards & Registrations (applicable to the active ingredient):- European Test Standard EN1276, EC-BAG No. 56868, Bacteria including - E coli, MRSA, Listeria, Salmonella, Legionella. Virus including - Hepatitis B, HIV-1 (Aids), Herpes simplex. Solutions should always be freshly prepared.

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

**DO NOT MIX MICROSAN WITH OTHER DETERGENTS.**

Carpets, fabrics and light soil conditions: Dilute 10ml to 20ml of concentrate per litre of water (1% to 2%). Heavy contamination: Dilute 20ml to 30ml of concentrate per litre of water (2% to 3%).

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

Apply mixed solution by sprayer to contaminated surfaces and allow 15 minutes contact time before rinsing.

Carpets and fabrics should be extraction rinsed with B109 Fibre & Fabric Rinse.

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification:** Risk of serious damage to eyes. Irritating to skin.

**Eye Contact:** Contact with concentrate may cause significant eye irritation and possible damage if not promptly rinsed.

**Skin Contact:** Prolonged or repeated contact with concentrate may cause irritation and/or dermatitis.

**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.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

SUBSTANCE	RISK (See Section 16)	EINECS NO.	CAS NO.	% W/W (EC RANGE)
C9-11 Alcohol ethoxylate with 9MEO	Xn R22 Xi R41	None	68439-45-2	5 to 15%
Didecyldimethylammonium chloride	C R22 R34	230-525-2	7173-51-5	Less than 5%
Tetrasodium ethylenediaminetetraacetate	Xn R22 Xi R41	200-573-9	64-02-8	Less than 5%
Propan-2-ol	F R11 Xi R36 R67	200-661-7	67-63-0	Less than 5%
Sodium Carbonate	Xi R36	207-838-8	497-19-8	Less than 5%
Perfume	Xn R65 Xi R38 R43 N R51/53	227-813-5	5989-27-5	Less than 1%

**SECTION 4: FIRST AID MEASURES**

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

**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.

**SECTION 5: FIRE FIGHTING MEASURES**

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

**Fire/Explosion Hazards:** No explosion hazard.

**Decomposition Products:** Exposure to fire may liberate small amounts of nitrogen oxides, hydrogen chloride and other organic gases in extreme heat.

**Special Protective Equipment:** Self contained breathing apparatus for large amounts involved in fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Protection:** Protective clothing, nitrile butyl rubber gloves, chemical splash goggles.

**Containment and Disposal:** Large spills should be treated with dry absorbent and disposed at legal waste disposal site. Do not allow concentrated product spillages to reach sewage system or water bodies. Inform water authority if concentrate spill reaches water or sewage system.

**SECTION 7: HANDLING AND STORAGE**

**Handling Precautions:** Wear nitrile butyl rubber gloves and safety glasses when handling concentrate.

**Storage Precautions:** Avoid extremes of temperature. Keep out of reach of children. Keep in original plastic container.

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

**Exposure Limits:** Propan-2-ol WEL-LEL 400ppm (999mg/m<sup>3</sup>) WEL-STEL 500ppm (1250mg/m<sup>3</sup>).

**Environmental Controls:** For additional guidance, contact ENVIROWISE at [www.envirowise.gov.uk](http://www.envirowise.gov.uk) or telephone 0800 585794

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

**Protective Clothing:** Standard work clothing and nitrile or butyl 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.

**Hygiene:** Wash hands and clothing after use or spill. Do not eat or drink when handling chemicals.

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

**Appearance/Colour/State:** Moderate foam clear straw liquid

**Odour:** Floral Citrus

**pH Concentrate:** 11.5 **pH Diluted:** 10.5

**Boiling Point / Range °C:** 100

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

**Flammability Limit %:** Not applicable

**Explosive Properties:** Not applicable

**Oxidising Properties:** Not applicable

**Vapour Pressure:** Not determined

**Relative Density (Water = 1):** 1.02

**Solubility:** 100%

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

**Viscosity:** Not determined

**Vapour Density:** Not determined

**Evaporation Rate:** Not determined

**% Active:** 19.18

**% Solids:** 17

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

**Stability:** Stable

**Conditions to Avoid:** Extremes of temperature.

**Incompatibility (Materials to Avoid):** Partial incompatibility with anionic detergents.

**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**

**Eye Contact:** Contact with concentrate may cause significant irritation and possible damage.

**Skin Contact:** Prolonged or repeated contact with concentrate or working solution may cause irritation and possible dermatitis.

**Inhalation:** Possible transient respiratory irritation from wetting agents in atomised spray form.

**Ingestion:** Product is mildly corrosive to mucous membranes. Possible systemic effects.

**Acute and Chronic Effects:**

**Acute Toxicity:** LD50 200-2000mg/kg (oral-rat) (C9-11 alcohol ethoxylate with 9MEO);

LD50 >2000mg/kg (dermal-rat) (C9-11 alcohol ethoxylate with 9MEO);

LD50 238mg/kg (oral-rat) (didecyldimethylammonium chloride);  
LD50 3342mg/kg (dermal-rabbit) (didecyldimethylammonium chloride);

**Corrosivity / Irritation:** Skin, eye and respiratory

**Sensitisation:** This product contains limonene, linalool, and citral.

**Repeated Dose Toxicity:** Not established

**Mutagenicity:** None

**Carcinogenicity:** None

**Teratogenicity:** None

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** EC50 48h 13.4mg/l (daphnia) (C9-11 alcohol ethoxylate with 9MEO)

LC50 96h 23.7mg/l (rainbow trout) (C9-11 alcohol ethoxylate with 9MEO)

LC50 10-100mg/l (algae) (C9-11 alcohol ethoxylate with 9MEO)

LC50 96h 1mg/l (fish) (didecyldimethylammonium chloride)

EC50 48h 0.094mg/l (daphnia) (didecyldimethylammonium chloride)

EbC50 96h 0.026mg/l (algae) (didecyldimethylammonium chloride)

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

**Mobility:** Soluble in water.

**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.

**Bioaccumulative Potential:** Not known for preparation. Didecyldimethylammonium chloride does not bioaccumulate.

**Other Effects:** None known or no relevant data available for substances in this preparation.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste cleaning effluent should be disposed of in accordance with regional and national requirements.

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**

**UN No:** None

**Classification:** Not classified as hazardous for transport

**Proper Shipping Name:** None

**Packing Group:** None

**Road (ADR):** None

**Sea (IMDG):** None

**Air (ICAO / IATA):** None

**Rail (RID):** None

#### **SECTION 15: REGULATORY INFORMATION**

**Classification:** Xi IRRITANT

**Risk Phrases**

R41 Risk of serious damage to eyes.

R38 Irritating to skin.

**Safety Phrases**

S2 Keep out of the reach of children.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S35 This material and its container must be disposed of in a safe way.

S37/39 Wear suitable gloves and eye/face protection.

S46 If swallowed seek medical advice immediately and show this container or label.

The information given has been compiled with reference to the **CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS (CHIP 4) 2009** (as amended), 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.

#### **SECTION 16: OTHER INFORMATION**

**Risk Phrases:** R11 Highly flammable. R22 Harmful if swallowed. R34 Causes burns. R36 Irritating to eyes. R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R51 Toxic to aquatic organisms. R53 May cause long term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness. 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 01/07/08  
Revised Sections: 1, 8, 12, 15.