



Product Specification &

SAFETY DATA SHEET

CHIP / EC FORMAT 91/155/EEC AMD 93/112/EC AMD 2001/58/EC

**D500
MICROSAN**



SECTION 1: IDENTIFICATION OF THE PREPARATION AND COMPANY

Product Name: MICROSAN **Product Code:** D500
Manufacturer: Prochem Europe Ltd., Oakcroft Road, Chessington, Surrey KT9 1RH, UK. Telephone No: 020 8974 1515 (UK) +44 20 8974 1515 (EC) Chemical Product Manager E, H & S
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:- European Test Standard EN1276, FDA-No rinse sanitiser for food contact surfaces, 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: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	RISK (See Section 16)	EINECS NO.	CAS NO.	% W/W (EC RANGE)
Water	None	None	None	More than 30%
Non-ionic surfactant	Xn R22 Xi R41	None	68439-45-2	5 to 15%
Didecylidimethylammonium chloride	F R10 C R34 Xn R22 R67 N R50	230-525-2	7173-51-5	5 to 15%
EDTA	Xn R22 Xi R36	200-573-9	64-02-8	Less than 5%
Sodium Carbonate	Xi R36	207-838-8	497-19-8	Less than 5%
Fragrance (IFRA certified)	Xi R36/38	None	None	Less than 5%
Silicate	-	-	-	Less than 1%

SECTION 3: 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 mild 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 4: FIRST AID MEASURES

Eye Contact: Flush immediately with water for 10 minutes, then seek medical attention if irritation persists.
Skin Contact: Flush skin with plenty of 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 is 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: Occupational exposure limits not assigned by HSE EH/40 or ACGIH.

Environmental Controls: For additional guidance, contact ENVIROWISE at 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 manufacturers 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 mist or vapour 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:** 9.5

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: 20.68

% 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. Low oral toxicity.

Acute and Chronic Effects:

Acute Toxicity: Didecyldimethylammonium chloride LD50: 645mg/kg (Oral – Rat)

Skin irritation (rabbit, 4h): corrosive

Corrosivity / Irritation: Skin, eye and respiratory

Sensitisation: None Known

Repeated Dose Toxicity: Not established

Mutagenicity: None

Carcinogenicity: None

Teratogenicity: None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Contains less than 15%

Didecyldimethylammonium chloride, which is classified as very toxic to aquatic organisms.

LC50 fish: 1mg/l 96h (Didecyldimethylammonium chloride)

EC50 Daphnia: 0.094mg/l 48h (Didecyldimethylammonium chloride)

EbC50 Algae: 0.026mg/l 96h (Didecyldimethylammonium chloride)

EC50 Bacteria: 11mg/l 3h (Didecyldimethylammonium chloride)

Mobility: Soluble in water.

Persistence and Degradability: The raw material ingredients in this product are biodegradable within the scope of current EC legislation. 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 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

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 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.

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 3) 2002** (as amended), the **CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH) 2002** (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: R10 Flammable. R22 Harmful if swallowed. R34 Causes burns. R36 Irritating to eyes. R38 Irritating to skin. R41 Risk of serious damage to eyes. R50 Very toxic to aquatic organisms. 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 01/01/04 Revised Sections: 2, 4, 9, 11, 12, 15, 16