



## SAFETY DATA SHEET MICROSAN

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

#### 1.1. Product identifier

**Product name** MICROSAN

**Product number** D500

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

**Identified uses** A hard surface alkaline cleaning concentrate with wide range antimicrobial biocide.  
Efficacy & Standards: European Test Standard EN1276, Bacteria including - E coli, MRSA, Listeria, Salmonella, Legionella. EN14476 Viruses including - Hepatitis B, HIV-1, HBV, HCV, Coronavirus, Ebola, Measles.

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

**Supplier** www.prochem.co.uk  
Prochem Europe Ltd  
Oakcroft Road  
Chessington  
Surrey  
KT9 1RH  
Telephone: 020 8974 1515 (office hours 8am to 5pm Monday to Friday)  
Fax: 020 8974 1511  
sales@prochem.co.uk

#### 1.4. Emergency telephone number

**Emergency telephone** 24 hr emergency number +44 1235 239670.  
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. For Republic of Ireland contact the NPIC: 01 837 9964 or 01 809 2566.

### SECTION 2: Hazards identification

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

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

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318

**Environmental hazards** Aquatic Chronic 3 - H412

**Human health** Causes serious eye damage. Causes skin irritation. Excessive inhalation of spray, mist or vapour may cause temporary respiratory irritation. Ingestion may cause: systemic effects The product irritates mucous membranes and may cause abdominal discomfort if swallowed.

**Environmental** The product is expected to be biodegradable. The product contains a substance which is Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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## Hazard pictograms



<b>Signal word</b>	Danger
<b>Hazard statements</b>	H315 Causes skin irritation. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P102 Keep out of reach of children. P273 Avoid release to the environment. 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. P310 Immediately call a POISON CENTER/ doctor. P302+P352 IF ON SKIN: Wash with plenty of water. P501 Dispose of contents / container in accordance with local / regional / national / international regulations.
<b>Contains</b>	Isotridecanol, ethoxylated (>7-<15 EO), Didecyldimethylammonium chloride
<b>Detergent labelling</b>	< 5% disinfectants, < 5% non-ionic surfactants, < 5% perfumes, Contains Hexyl cinnamal, d-Limonene

## 2.3. Other hazards

See section 8 for details of exposure limits.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Isotridecanol, ethoxylated (&gt;7-&lt;15 EO)</b>	<b>1-5%</b>
CAS number: 69011-36-5	EC number: 931-138-8
<b>Classification</b>	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
<b>Didecyldimethylammonium chloride</b>	<b>&lt;2.5%</b>
CAS number: 7173-51-5	EC number: 230-525-2
M factor (Acute) = 10	M factor (Chronic) = 1
<b>Classification</b>	
Acute Tox. 3 - H301	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

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

<b>Ingestion</b>	The product irritates mucous membranes and may cause abdominal discomfort if swallowed. systemic effects
<b>Eye contact</b>	Causes serious eye damage.

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

<b>Notes for the doctor</b>	IF IN EYES: Rinse immediately with plenty of water.
<b>Specific treatments</b>	In the event of contact with eyes or ingestion seek immediate medical help.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Water spray, dry powder or carbon dioxide.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. Hydrogen chloride (HCl).

### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus.
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## **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see Section 13.
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## **SECTION 7: Handling and storage**

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## 7.1. Precautions for safe handling

**Usage precautions**                      Wear protective clothing as described in Section 8 of this safety data sheet. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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

**Storage precautions**                    Store in closed original container at temperatures between 5°C and 30°C. Keep out of the reach of children.

## 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

**Ingredient comments**                    No exposure limits known for ingredient(s).

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls**                    Provide adequate ventilation.

**Eye/face protection**                    Side shield safety glasses are recommended when handling concentrate or during spray application.

**Hand protection**                         Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

**Hygiene measures**                        Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

**Respiratory protection**                    For situations where recommended exposure limits may be exceeded or where there is a risk of inhalation of fine spray mists, a suitable respirator face mask is recommended. Wear a respirator fitted with the following cartridge: Particulate filter, type P3.

## SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Straw.
<b>Odour</b>	Apple.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	pH (concentrated solution): 11.5 pH (diluted solution): 9.5
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	100°C
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not determined.

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<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.02
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Not applicable.

### 9.2. Other information

<b>Other information</b>	None.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not determined.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Protect from freezing and direct sunlight. Store in closed original container at temperatures between 5°C and 30°C.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Partial incompatibility with anionic detergents. Avoid contact with the following materials: Oxidising agents. Reducing agents.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. Hydrogen chloride (HCl).
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	Ingestion may cause: systemic effects The product irritates mucous membranes and may cause abdominal discomfort if swallowed. Spray/mists may cause respiratory tract irritation.
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### Acute toxicity - oral

<b>ATE oral (mg/kg)</b>	5,149.21
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### Skin corrosion/irritation

<b>Skin corrosion/irritation</b>	Causes skin irritation.
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### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

### Skin sensitisation

**Skin sensitisation** Contains Hexyl cinnamal Limonene

### Germ cell mutagenicity

**Genotoxicity - in vivo** No effects expected based upon current data.

### Carcinogenicity

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

### Reproductive toxicity

**Reproductive toxicity - fertility** No effects expected based upon current data.

### Toxicological information on ingredients.

#### Isotridecanol, ethoxylated (>7-<15 EO)

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 301.0

**Species** Rat

**ATE oral (mg/kg)** 301.0

#### Didecyldimethylammonium chloride

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 238.0

**Species** Rat

**ATE oral (mg/kg)** 238.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 3,342.0

**Species** Rabbit

**ATE dermal (mg/kg)** 3,342.0

## SECTION 12: Ecological information

### 12.1. Toxicity

**Toxicity** The product contains a substance which is Very toxic to aquatic life with long lasting effects.

### Ecological information on ingredients.

#### Isotridecanol, ethoxylated (>7-<15 EO)

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1-10 mg/l, Cyprinus carpio (Common carp)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 1-10 mg/l, Daphnia magna

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**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 1-10 mg/l, Desmodosmus subspicatus

### Didecyldimethylammonium chloride

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

**M factor (Acute)** 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.19 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.062 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 0.026 mg/l, Selenastrum capricornutum

#### Chronic aquatic toxicity

**M factor (Chronic)** 1

**Chronic toxicity - fish early life stage** NOEC, 34 days: 0.032 mg/l, Brachydanio rerio (Zebra Fish)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.01 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** The surfactant(s) contained in this product complies(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.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not known.

**Partition coefficient** Not determined.

### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

### 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

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site.

## SECTION 14: Transport information

### 14.1. UN number

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Not classified for transportation.

## 14.2. UN proper shipping name

None.

## 14.3. Transport hazard class(es)

None.

**ADR/RID class** -

**IMDG class** -

## 14.4. Packing group

None.

## 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

## 14.6. Special precautions for user

None.

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

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

## **SECTION 15: Regulatory information**

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

<b>National regulations</b>	REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1577. GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567. Detergents (Amendment) (EU Exit) Regulations UK SI 2020/1617. The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
<b>EU legislation</b>	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). 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).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

<b>General information</b>	Telephone 020 8974 1515
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	16/12/2020
<b>Revision</b>	8
<b>Supersedes date</b>	27/04/2020



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**Please note:** Where abbreviations have been used elsewhere the full text has been written below, for the classification of the product please refer to section 2.

**Hazard statements in full**

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

**Signature** Aaron Saunders

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.