

SECTION 1: Identification of the substance/mixture and company**1.1. Product Identifier**

Product code: DS500

Name: DentiBright

1.2. Product Uses

Foam based product for effective descaling and removal of mineral deposits from stainless steel internal chamber surfaces of autoclaves, washer disinfectors and ultrasonic baths. CAUTION: Do not apply to hot surfaces and acid sensitive materials.

**1.3. Supplier**

Dentisan
Bateman Street
Derby

DE23 8JL

Phone: 01332 268526

Web: www.dentisan.co.uk

Fax: 01332 295941

Email: info@dentisan.co.uk**1.4. Emergency telephone number**

Emergency Telephone Number: 01332 292402

SECTION 2: Hazards identification (Undiluted product)**2.1. Classification of the mixture**

According to 1272/2008

Health Hazards: Eye Dam. 1, Skin Irrit. 2

Physical Hazards: Not Classified

Environmental Hazards: Not Classified

2.2. Label elements

According to 1272/2008

Danger



H318 Causes serious eye damage

H315 Causes skin irritation

P264 Wash hands thoroughly after handling.

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.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P261 Avoid breathing mist/spray.

P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/ information on ingredients

Material	CAS number	Level	Hazards (see section 16)	
Phosphoric acid	7664-38-2	1-5%	Skin Corr. 1B	H314
Amphoteric surfactant	1643-20-5	0-1%	Aquatic Acute 1, Aquatic Chronic 2, Eye Dam. 1, Skin Irrit. 2	H315 H318 H400 H411
Nitric acid	7697-37-2	<0.2%	Skin Corr. 1A	H314
Corrosion inhibitor	Mixture	<0.1%	Acute Tox. 4, Aquatic Chronic 3, Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 1	H315 H317 H412 H302 H318 H372

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact: Immediately flush eyes with water, holding eyelids apart, for at least 10 minutes. Seek medical assistance immediately.

Skin contact: Remove contaminated clothing, wash skin with water and seek medical attention immediately.

Inhalation: If irritation occurs, remove to fresh air, keep warm and at rest, seek medical attention immediately.

Ingestion: Do not induce vomiting. If conscious, give water to drink. Seek medical assistance immediately.

First aider PPE: As required to prevent contact. See section 8.2.

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

Eye hazard: Causes burns.

Skin hazard: Will cause severe irritation and damage.

Respiratory hazard: Breathing spray mist may cause irritation.

Other hazards:

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

No special treatment or attention required additional to section 4.2.

SECTION 5: Fire fighting measures

Flammability hazard: Not combustible.

5.1. Extinguishing media

No special requirements. As appropriate for the fire.

5.2. Special hazards arising from the mixture

No specific hazards arising from the mixture.

5.3. Advice for firefighters

No special measures arising from the mixture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Take precautions to avoid contact. Use Personal Protective Equipment as detailed in section 8

Spillage may make floors slippery. Keep the area clear. Observe regulations.

6.2. Environmental precautions

Prevent spills from entering water courses.

6.3. Methods and material for containment and cleaning up

Small quantities, flush to foul sewer with a large quantity of water.

Large quantities, contain and absorb or pump into suitable containers for disposal.

6.4. Reference to other sections

Observe the advice given in sections 8 and 13

SECTION 7: Handling and storage

Shelf life: 24 months in original sealed containers.

7.1. Precautions for safe handling

Do not mix with other products. Observe good industrial hygiene.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place protected from frost and away from alkalis and strong oxidising agents. Store upright in original containers. Recommended storage temperature 5-25°C.

7.3. Product Uses

Ensuring correct PPE is worn, apply product to area(s) where treatment is required then allow to soak for up to 30 minutes. For stubborn deposits, use an acid resistant, non-metallic brush to speed the process. After soaking, rinse well with water and repeat the process if required. Run a cycle of the treated apparatus with no load before next use. CAUTION: Do not apply to hot surfaces or acid sensitive materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits

Orthophosphoric acid	1mg/m ³	WEL 8 hour TWA (UK EH40)
Nitric acid	1ppm	WEL 15 min STEL (UK EH40)

8.2. Exposure controls

These measures are suggested on the basis of general use methods and may not be appropriate to all potential uses of the product. The user is responsible for carrying out a full risk assessment of their specific processes and systems of work.

Eye protection:	Wear eye protection appropriate to the process according to BS EN 166.
Hand protection:	Wear pvc or latex gloves. Exact choice of glove depends on specific risk assessments.
Body protection:	As necessary to prevent contact.
Respiratory protection:	Use in a well ventilated area, avoid breathing spray mist, wear a protective mask to EN149 if necessary.
Other protection:	

Personal protective equipment:



Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out.

Environmental protection: Prevent mixture from entering water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Hazy liquid	
Odour:	Acidic	
pH (typical):	1.0	as supplied (typical).
Initial boiling point:	100°C.	Flash point: Not applicable.
Auto-ignition temp:	None.	Viscosity: Slightly viscous liquid
Explosive properties:	None.	
Oxidising properties:	None.	
Vapour pressure:	None known.	
Solubility:	Miscible with water.	
Relative density at 20° C (typical):	1.024	

9.2. Other information

SECTION 10: Stability and reactivity

- 10.1. Reactivity** Incompatible with strong oxidising agents and alkalis.
- 10.2. Chemical stability** Stable under recommended storage conditions.
- 10.3. Possibility of hazardous reactions** No hazardous reactions are expected to occur.
- 10.4. Conditions to avoid** Extremes of temperature.
- 10.5. Incompatible materials** Incompatible with strong oxidising agents and alkalis.
- 10.6. Hazardous decomposition products** None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- Acute toxicity: Contains an ingredient classified as Acute Tox 4. Section 3. Mixture is not classified as Acute Tox 4.
- Skin corrosion/ irritation: Mixture is classified as Skin Irrit 2. See section 2.
- Serious eye damage/ irritation: Mixture is classified as Eye Dam 1. See section 2.
- Respiratory or skin sensitisation: Contains an ingredient classified as Skin Sens.1. Section 3. Mixture is not classified as Skin Sens. 1.
- Germ cell mutagenicity: Does not contain any ingredients classified as mutagenic.
- Carcinogenicity: Does not contain any ingredients classified as carcinogenic.
- Reproductive toxicity: Does not contain any ingredients classified as toxic for reproduction.
- STOT single exposure: Does not contain any ingredients classified as STOT SE.
- STOT repeated exposure: Contains an ingredient classified as STOT RE 1. Section 3. Mixture is not classified as STOT RE 1.
- Aspiration toxicity: Does not contain any ingredients classified as Asp Tox.

Routes of exposure/ symptoms

- Eye contact: Causes burns.
- Skin contact: Will cause severe irritation and damage.
- Inhalation: Breathing spray mist may cause irritation.
- Ingestion: Moderate toxicity, will cause irritation and damage to gastro-intestinal tract due to acidity.

SECTION 12: Ecological information

- 12.1. Toxicity** May affect aquatic organisms due to low pH if released into water courses untreated.
- 12.2. Persistence and degradability** All organic ingredients are biodegradable when well diluted. Surfactants used comply with biodegradation criteria, see section 15.1.
- 12.3. Bioaccumulative potential** Not expected to bioaccumulate
- 12.4. Mobility in soil** This product has high water solubility
- 12.5. Results of PBT and vPvB assessment** Contains no ingredients classified as PBT or vPvB.
- 12.6. Other adverse effects** No other adverse effects are anticipated.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Process effluent can normally be discharged to foul sewer (subject to consent limits).
- Dispose of surplus product and packaging via a licenced chemical waste contractor.
- Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

SECTION 14: Transport information

- 14.1. UN number** Not classified **14.2. UN proper shipping name** N/a
- 14.3. Transport hazard class(es)** N/a **14.4. Packing group** Na
- 14.5. Environmental hazards** Not classified as environmentally hazardous for transport
- 14.6. Special precautions for user** No specific precautions.
- 14.7. Transport in bulk according to Annex II of MARPOL 7 3/78 and the IBC Code** Not available for bulk transport.

SECTION 15: Regulatory information

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

Contents according to (EC) regulation No.648/2004 on detergents:

Amphoteric surfactants <5%

The surfactant(s) contained in this preparation comply with the biodegradability criteria 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.

15.2. Chemical safety assessment A chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements relating to ingredients (see section 3)

H314 Causes severe skin burns and eye damage

H315 Causes skin irritation

H318 Causes serious eye damage

H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

H372 Causes damage to organs through prolonged or repeated exposure

H302 Harmful if swallowed

H317 May cause an allergic skin reaction

H412 Harmful to aquatic life with long lasting effects

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This product should be stored, handled and used in accordance with good industrial practice and in conformity with legal regulations. The information in this data sheet is based on the present state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties. It is for users to satisfy themselves of the suitability of this product for their own applications.