

SAFETY DATA SHEET — Periodic Shock treatment B500, B900 for dental unit water lines (DUWL)

Hygiene & Care

SAFETY DATA SHEET

according to regulation (EC) No.1907/2006

Date of issue:

11 January 2019

Issue number:

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SECTION 1: Identification of the substance/mixture and company

1.1 Product identifier

Name:

Periodic Shock treatment

Description:

Biofilm removal solution

1.2 Product uses

An off line disinfectant and biofilm remover for dental unit water lines. Not for use as a continuous feed water additive.

1.3 Supplier

Takara Belmont (UK) Ltd. 1 Saint Andrews Way, London E3 3PA

Telephone:

020 7515 0333

Web:

belmontdental.co.uk

Email:

dental@takara.co.uk

1.4 Emergency telephone number

Emergency telephone number: 020 7515 0333

SECTION 2: Hazards identification

2.1 Classification of the mixture

(Undiluted product)

According to 1272/2008

Health Hazards:

Eye Irrit. 2

Physical Hazards:

Not Classified

Environmental Hazards:

Aquatic Chronic 2

2.2 Label elements

Warning



H319 Causes serious eye irritation

H317 Contains PHMB. May produce an allergic reaction

H411 Toxic to aquatic life with long lasting effects

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

2.3 Other hazards

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.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

SECTION 3: Composition / Information on ingredients

Material

Polyhexamethylene biguanide hydrochloride

According to 1272/2008

CAS number

32289-58-0

Level

0-1%

Hazards (see section 16)

Acute Tox. 4, Aquatic Acute 1, H351 H302 H372 H318 H400

Aquatic Chronic 1, Carc. 2, Eye H410 H317

Dam. 1, Skin Sens. 1, STOT RE 1

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 if irritation persists.

Skin contact:

Remove contaminated clothing, wash skin with water and seek medical attention if irritation persists.

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:

Will cause irritation.

Skin hazard:

Not classified as skin irritant. Can produce an allergic reaction in sensitive individuals.

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: Firefighting measures

5.1 Extinguishing media

Flammability hazard:

Not combustible

5.2 Special hazards arising from the mixture

No special requirements. As appropriate for the fire.

5.3 Advice for firefighters

May cause toxic fumes in a fire.

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, mop up or use an inert absorbent.

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 acids and strong oxidising agents. Store upright in original containers.

7.3 Product Uses

Follow the instructions supplied with the product. Please refer to product safety datasheet before use. Use only as directed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

None set in 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:

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: Blue liquid.

Oxidising properties: None.

Odour: None.

Vapour pressure: 17.5mm Hg at 20°C.

pH (typical): 8 as supplied (typical).

Solubility: Miscible with water.

Initial boiling point: >100°C

Relative density at 20°C (typical): 1.000

Auto-ignition temp: None.

Flash point: None.

Explosive properties: None.

Viscosity: Free flowing.

9.2. Other information

SECTION 10: Stability and reactivity

10.1 Reactivity

Incompatible with strong oxidising agents and acids.

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 acids.

10.6 Hazardous decomposition products

May produce toxic fumes in fire.

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 Acutely Toxic.

Skin corrosion/ irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/ irritation:

Mixture is classified as Eye Irritant 2. See section 2.

Respiratory or skin sensitisation:

Contains PHMB, may cause sensitisation by skin contact.

Germ cell mutagenicity:

Does not contain any ingredients classified as mutagenic.

Carcinogenicity:

Contains an ingredient classified as a Carc 2 (section 3). Mixture is not 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 (section 3). Mixture is not classified as STOT RE.

Aspiration toxicity:

Does not contain any ingredients classified as Asp Tox.

Routes of exposure/symptoms

Eye contact:

Will cause irritation.

Skin contact:

Not classified as skin irritant. Can produce an allergic reaction in sensitive individuals.

Inhalation:

Breathing spray mist may cause irritation.

Ingestion:

Low toxicity, may cause irritation to gastro-intestinal tract.

SECTION 12: Ecological information

12.1 Toxicity

This product has microbiocidal properties. Large quantities may affect biological treatment plants.

12.2 Persistence and degradability

May affect aquatic organisms due to biocidal activity if released into water courses untreated.

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).

SECTION 14: Transport information

14.1 UN number

3082

14.2 UN proper shipping name

Environmentally hazardous substance, liquid, N.O.S.

14.3 Transport hazard class(es)

9

14.4 Packing group

3

14.5 Environmental hazards

Product is environmentally hazardous (LQ)

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:

Nonionic surfactants

<5%

Disinfectant

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)

H302 Harmful if swallowed

H372 Causes damage to respiratory system through prolonged or repeated exposure/inhalation

H317 May cause an allergic skin reaction

H400 Very toxic to aquatic life

H318 Causes serious eye damage

H410 Very toxic to aquatic life with long lasting effects

H351 Suspected of causing cancer

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.