

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006,  
as amended by Regulation (EU) No. 2015/830

Version 4.0

Revision date: 04.03.2020

Previous version date: 24.04.2019



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## PROTECTUS VIRIDIS ANTI-BACTERIAL HANDRUB

### SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

Product name **Protectus Viridis Anti-Bacterial Handrub**  
Product code **PV-FHBSAN**

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

A ready-to-use disinfecting solution for general disinfection of hands and protection against common bacteria and other pathogens. For professional and consumer use.

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

Company: Residual Barrier Technology  
The Die-Pat Centre, Broad March  
Daventry, Northamptonshire, UK, NN11 4HE

Tel: +44 (0) 1327313100

E-mail: [info@rbt247.com](mailto:info@rbt247.com) Web: [www.rbt.global](http://www.rbt.global)

#### 1.4 Emergency telephone number

+44 (0) 7980668305

### SECTION 2: Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2; H319

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

##### Hazard pictograms



Signal Word : Warning

##### Hazard statements

H319 : Causes serious eye irritation.

##### Precautionary statements

###### Prevention:

P102 : Keep out of reach of children.

P103 : Read label before use.

###### Response:

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

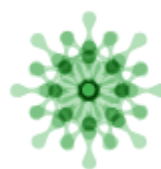
P337 + P313 : If eye irritation persists: Get medical advice/attention.

#### 2.3 Other hazards

None known.

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### SECTION 3: Composition and Information on Ingredients

#### 3.2 Mixtures

Substance	CAS No. / EC No. / REACH No.	Classification	Range
<b>2-Phenoxyethanol</b>	122-99-6 204-589-7 01-2119488943-21	Acute Tox. 4; H302 (oral) Eye Irrit. 2; H319	≤ 3 %
<b>Lactic acid</b>	79-33-4 201-196-2 01-2119474164-39	Skin Irrit. 2; H315 Eye Dam. 1; H318	≤ 1 %
<b>Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides</b>	308062-28-4 931-292-6 01-2119490061-47	Acute Tox. 4; H302 (oral) Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	≤ 0.5 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First Aid Measures

#### 4.1. Description of first aid measures

Eye contact	Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice.
Skin contact	Adverse reactions are not anticipated in normal handling and use. However, should a reaction occur, then wash the affected area with plenty of clean water and seek medical advice.
Inhalation	Adverse reactions are not anticipated in normal handling and use. If feel unwell, move to fresh air and seek medical attention.
Ingestion	Rinse mouth with plenty of water. Do NOT induce vomiting. If you feel unwell, get medical advice.

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

Causes eye irritation: itching, redness, discomfort.

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

No specific recommendations.

### SECTION 5: Fire Fighting Measures

#### 5.1. Extinguishing media

No special requirements, as appropriate for the fire.

#### 5.2. Special hazards arising from the substance or mixture

The product is non-combustible as it is water-based with non-flammable components. No special hazards.

#### 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

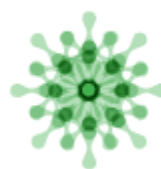
Avoid contact with eyes. Wear suitable protective equipment.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Keep away from drains, surface water and soil.

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**6.3. Methods and material for containment and cleaning up**

Small spillages: mop up or absorb with an inert dry material (e.g. paper towel) and dispose of in bin.

Large spillages: contain spillage, then absorb with liquid-binding material (e.g. sand, diatomite, acid binders, universal sawdust) and place in container for disposal according to local/national regulations.

**6.4. Reference to other sections**

For personal protection see section 8.

**SECTION 7: Handling and Storage**

**7.1. Precautions for safe handling**

Avoid contact with eyes. Use in accordance with product label.

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

Store in original container. Protect from extreme temperatures and direct sunlight. Do not freeze.

**7.3. Specific end use(s)**

No additional information.

**SECTION 8: Exposure Controls/ Personal Protection**

**8.1. Control parameters**

Contains no substances with occupational exposure limit values.

**8.2. Exposure controls**

Appropriate engineering controls:

No specific recommendations.

Personal protective equipment:

Eye protection

If splashing of the product is likely use safety glasses with side shields.

Hand protection

Not required in normal handling as product intended to be used as a leave-on hand sanitiser but touching of eyes should be avoided after application to hands.

Skin and body protection

Not required in normal handling and use.

Respiratory protection

Not required in normal handling and use.

Environmental exposure controls: Prevent mixture from entering water courses.

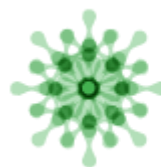
**SECTION 9: Physical and Chemical Properties**

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

Physical state	liquid
Colour	transparent
Odour	characteristic
Odour threshold	no data
pH at 20°C	2.4 - 3.0
Melting point	ca. 0°C
Initial boiling point and range	ca. 100°C
Flash point	above 100°C
Evaporation rate	not volatile
Flammability (solid, gas)	not applicable since the product is liquid
Upper/lower flammability or explosive limits	not applicable since the product is not flammable/explosive
Vapour pressure	no data
Vapour density	no data
Density (g/cm <sup>3</sup> )	1.0 - 1.2
Solubility in water	completely miscible

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Partition coefficient: n-octanol/water	not applicable for mixtures
Auto-ignition temperature	not applicable since the product is not volatile
Decomposition temperature	no data
Viscosity	no data
Explosive properties	not explosive
Oxidising properties	not classified as oxidising

**9.2. Other information**

No data available.

**SECTION 10: Stability and Reactivity**

**10.1. Reactivity**

Stable and is not expected to have a hazardous reaction.

**10.2. Chemical stability**

Stable under normal temperature. Store in a cool dry place.

**10.3. Possibility of hazardous reactions**

Stable under normal conditions.

**10.4. Conditions to avoid**

Avoid direct sunlight.

**10.5. Incompatible materials**

Strong bases. Strong oxidising agents.

**10.6. Hazardous decomposition products**

None under normal use.

**SECTION 11: Toxicological Information**

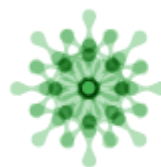
**11.1. Information on toxicological effects**

Acute toxicity:

	Oral	Contains ingredients classified as Acute Tox. 4 (section 3). Mixture is not classified as Acute Tox. by the conventional method using information derived from supplier's SDS.
	Dermal	Does not contain any ingredients classified as Acute Tox.
	Inhalation	Does not contain any ingredients classified as Acute Tox.
Skin corrosion/irritation		Contains ingredients classified as Skin Corr./Irrit. (section 3). Mixture is not classified as Skin Corr./Irrit. by the conventional method using information derived from supplier's SDS.
Serious eye damage/irritation		Mixture is classified as Eye Irrit. 2. See section 2.
Respiratory or skin sensitisation		Does not contain any ingredients classified as Sensit.
Germ cell mutagenicity		Components do not exhibit mutagenic properties in reported in-vitro studies.
Carcinogenicity		Does not contain any ingredients classified as Carc.
Reproductive toxicity		Components do not exhibit reproductive toxicity effects in reported studies.
STOT SE		Does not contain any ingredients classified as STOT SE.
STOT RE		Does not contain any ingredients classified as STOT RE.
Aspiration hazard		Does not contain any ingredients classified as Asp. Tox.

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**Routes of exposure/ symptoms**

Eye contact	Causes serious eye irritation.
Skin contact	No harmful effects expected under normal use.
Inhalation	No harmful effects expected under normal use.
Ingestion	No harmful effects expected in amounts likely to be ingested by accident.

**SECTION 12: Ecological Information**

**12.1. Toxicity**

The product is not classified as hazardous to the aquatic life.

**12.2. Persistence and degradability**

The product contains only readily biodegradable substances.

**12.3. Bioaccumulative potential**

No bioaccumulation is expected.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture does not contain any substance considered to be PBT (persistent, bioaccumulating and toxic) or vPvB (very persistent and very bioaccumulating).

**12.6. Other adverse effects**

No data available.

**SECTION 13: Disposal Considerations**

**13.1. Waste treatment methods**

Product	Small quantities may be flushed to drains with plenty of water (subject to consent limits). Large quantities dispose of in accordance with local regulations.
Contaminated packaging	Ensure used packaging is purged and fully cleaned before disposal. Recycle containers wherever possible.

**SECTION 14: Transport Information**

**ADR / RID / ADN / IATA / IMDG**

Not classified as dangerous in the meaning of transport regulations.

- 14.1. UN number** : not applicable
- 14.2. UN proper shipping name** : not applicable
- 14.3. Transport hazard class(es)** : not applicable
- 14.4. Packing group** : not applicable
- 14.5. Environmental hazards** : not applicable
- 14.6. Special precautions for user** : none
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**  
Not applicable.

**SECTION 15: Regulatory Information**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 2015/830. Label elements according to Regulation (EC) No. 1272/2008.

**15.2. Chemical safety assessment**

Not required.

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**SECTION 16: Other Information**

**Full text of H-Statements referred to under Section 3.**

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.