

Trade name: *Byoworks Hand Sanitiser - RFA*

Safety data sheet: According to 1907/2006/EC, Article 31. Revision: 22/07/2020

1. Identification of the substance/mixture and of the company/undertaking**Product identifier**

- Trade name: *Byoworks Hand Sanitiser - RFA*
- Relevant identified uses of the substance or mixture and uses advised against *Ready for application hand sanitiser*
- Sector of Use *SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites*
- Product category *PC8 Biocidal products (e.g. Disinfectants, pest control)*
- Process category *PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)*
- Environmental release category *ERC2 Formulation of preparations*

Details of the supplier of the safety data sheet

- Manufacturer: ***Byoworks (Pty) Ltd.***
Address: 9 Tekstiel Street, Parow Industria, 7490
Phone: +27 21 931 0056
Email: info@byoworks.co.za
Website: www.byoworks.co.za
- Further information obtainable from: *Technical Team: technical@byoworks.co.za*
- Emergency telephone number: *National Poisons Information Service: Phone: 021 689 5227 (Red Cross Hospital – Poison Call Centre)*

2. Hazards identification**Classification of the substance or mixture**

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC *Not applicable.*
- Information concerning hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system: *The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*

Label elements

- Labelling according to EU guidelines:
Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.
- Special labelling of certain preparations:
Contains Polyhexamethylenebiguanide. May produce an allergic reaction.

Other hazards

- Results of PBT and vPvB assessment
- PBT: *Not applicable.*
- vPvB: *Not applicable.*

3. Composition/information on ingredients

- Chemical characterization: *Mixtures*
- Description: *Mixture of substances listed below with non-hazardous additions.*

Dangerous components:

CAS: 27083-27-8	<i>Polymer</i>	<i>Polyhexamethylenebiguanide</i> <i>Xn R22; Xi R37/38-41; Xi R43; N R50/53</i>	<i>< 1%</i>
CAS: 7173-51-5		<i>Didiecyll Dimethyl Ammonium Chloride</i>	<i><1%</i>
CAS: 63449-41-2		<i>Benzalkonium Chloride</i>	<i><1%</i>

- *Additional information: For the wording of the listed risk phrases refer to section 16.*

4 First aid measures**Description of first aid measures**

- General information: *No special measures required.*
- After inhalation: *Supply fresh air; consult doctor in case of complaints.*
- After skin contact: *Generally the product does not irritate the skin.*
- After eye contact: *Rinse opened eye for several minutes under running water.*
- After swallowing: *If symptoms persist consult doctor.*

Information for doctor:



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- Most important symptoms and effects, both acute and delayed
- Indication of any immediate medical attention and special treatment needed

*No further relevant information available.
No further relevant information available.*

5 Firefighting measures

Extinguishing media

- Suitable extinguishing agents: CO₂, powder, or water spray.
- Special hazards arising from the substance or mixture

*Fight larger fires with water spray or alcohol resistant foam.
No further relevant information available.*

Advice for fire-fighters

- Protective equipment:

Put on breathing apparatus

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures *Not required.*
- Environmental precautions: *Dilute with plenty of water.*
- Methods and material for containment and cleaning up: *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)*

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

- Precautions for safe handling
- Information about fire - and explosion protection:

*No special measures required.
No special measures required.*

Conditions for safe storage, including any incompatibilities

Storage:

- Requirements to be met by storerooms and receptacles:
- Information about storage in one common storage facility:
- Further information about storage conditions:

*No special requirements.
Not required.
None.*

Storage class:

- Class according to regulation on flammable liquids:
- Specific end use(s)

*Void
No further relevant information available.*

8 Exposure controls/personal protections

- Additional information about design of technical facilities:

No further data; see item 7.

Control parameters

- Ingredients with limit values that require monitoring:
that have to be monitored at the workplace.
- Additional information:

*The product does not contain any relevant quantities of materials with critical values
The lists valid during the making were used as basis.*

Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:
- Respiratory protection:
- Protection of hands:
- Eye protection:

*The usual precautionary measures are to be adhered to when handling chemicals.
Not required.
Not required.
Not required.*



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9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

· Appearance:	
Form:	<i>Liquid</i>
Colour:	<i>Colourless to Pale Straw</i>
· Odour: Characteristic	
Odour threshold:	<i>Not determined.</i>
· pH-value at 20 °C:	<i>5 - 7 (pH indicator strip)</i>
· Change in condition	
Melting point/Melting range:	<i>Undetermined.</i>
Boiling point/Boiling range:	<i>Undetermined.</i>
· Flash point:	<i>Not applicable.</i>
· Flammability (solid, gaseous):	<i>Not applicable.</i>
· Ignition temperature:	
Decomposition temperature:	<i>Not determined.</i>
· Self-igniting:	<i>Product is not self-igniting.</i>
· Danger of explosion:	<i>Product does not present an explosion hazard.</i>
· Explosion limits:	
Lower:	<i>Not determined.</i>
Upper:	<i>Not determined.</i>
· Vapour pressure at 20 °C:	<i>23 hPa</i>
· Density:	<i>Not determined.</i>
· Relative density	<i>Not determined.</i>
· Vapour density	<i>Not determined.</i>
· Evaporation rate	<i>Not determined.</i>
· Solubility in / Miscibility with water:	<i>Fully miscible.</i>
· Partition coefficient (n-octanol/water):	<i>Not determined.</i>
· Viscosity:	
Dynamic:	<i>Not determined.</i>
Kinematic:	<i>Not determined.</i>
· Solvent content:	
Water:	<i>>95 %</i>
Solids content:	<i><5 %</i>
· Other information	<i>No further relevant information available.</i>

10 Stability and reactivity

Reactivity

Chemical stability:

· Thermal decomposition / conditions to be avoided:	<i>No decomposition if used according to specifications.</i>
· Possibility of hazardous reactions:	<i>No dangerous reactions known.</i>
· Conditions to avoid:	<i>No further relevant information available.</i>
· Incompatible materials:	<i>No further relevant information available.</i>
· Hazardous decomposition products:	<i>No dangerous decomposition products known.</i>

11 Toxicological information

Information on toxicological effects

Acute toxicity:

· Primary irritant effect:	
on the skin:	<i>No irritant effect</i>
on the eye:	<i>No irritating effect</i>
· Sensitization:	<i>No sensitizing effects known.</i>
· Additional toxicological information:	

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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12 Ecological information**Toxicity**

- Aquatic toxicity: *No further relevant information available.*
- Persistence and degradability *No further relevant information available.*

Behaviour in environmental systems:

- Bioaccumulative potential *No further relevant information available.*
- Mobility in soil *No further relevant information available.*

Additional ecological information:

- General notes: *Generally not hazardous for water*

Results of PBT and vPvB assessment

- PBT: *Not applicable.*
- vPvB: *Not applicable.*
- Other adverse effects *No further relevant information available.*

13 Disposal considerations**Waste treatment methods**

- Recommendation: *Smaller quantities can be disposed of with household waste.*

Uncleaned packaging:

- Recommendation: *Disposal must be made according to official regulations.*
- Recommended cleansing agents: *Water, if necessary together with cleansing agents.*

14 Transport information**UN-Number**ADR, ADN, IMDG, IATA *Void***UN proper shipping name**ADR, ADN, IMDG, IATA *Void***Transport hazard class(es)**

ADR, ADN, IMDG, IATA

Class *Void***Packing group**ADR, IMDG, IATA *Void***Environmental hazards:**Marine pollutant: *No***Special precautions for user** *Not applicable.***Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** *Not applicable***15 Regulatory information**

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

- **Philippines Inventory of Chemicals and Chemical Substances:** *None of the ingredients is listed.*
- **Australian Inventory of Chemical Substances** *None of the ingredients is listed.*
- **Standard for the Uniform Scheduling of Drugs and Poisons** *None of the ingredients is listed.*

National regulations:

- Classification according to VbF: *Void*
- Water hazard class: *Generally not hazardous for water.*
- Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- R22 *Harmful if swallowed.*
- R37/38 *Irritating to respiratory system and skin.*
- R41 *Risk of serious damage to eyes.*
- R43 *May cause sensitisation by skin contact.*
- R50/53 *Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.*

· Department issuing MSDS: Technical department · Contact: *technical@byoworks.co.za*