

MATERIAL SAFETY DATA SHEET (16 Point MSDS) B1925 - BYOTROL SURFACE SANITISER

Chemical Product And Company Identification

Product Name : Byotrol Surface Sanitiser

Distributor : Hygiene Disposables
Address : 1 Bushbuck Close – Unit 2
Corporate Park – South
Midrand, 1685
Telephone : 011 - 314 0714
Fax : 086 532 7777 / 011-314 0713
Emergency : 082 579 5219 / 082 964 1515
(24 Hours)

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Section 1. Product Identification

Product identifier
Trade name : B1925 Byotrol Surface Sanitiser
Relevant identified uses of the substance or mixture and uses advised against
: Dilute to Use Biocide Blend
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

Section 2. Composition & Information on Ingredients

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

Dangerous Components

| | | |
|--------------------------------------|---|---------|
| CAS: 7173-51-5 EINECS: 230-525-2 | didecyldimethylammonium chloride C R34; Xn R22; N R50 | 2.5-10% |
| CAS: 63449-41-2 EINECS: 264-151-6 | Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides C R34; Xn R21/22; N R50 | 2.5-10% |
| CAS: 27083-27-8 Polymer | Polyhexamethylenebiguanide Xn R22; Xi R37/38-41; Xi R43; N R50/53 | <2.5% |

Additional Information : Full text for all Risk Phrases mentioned in this section are displayed in
Section 16

Section 3. Hazards Identification

Classification of the substance or mixture

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
Xi; Irritant
R38-41 : Irritating to skin. Risk of serious damage to eyes.
Xi; Sensitising
- R43 : May cause sensitisation by skin contact.
- R52/53 : Harmful to aquatic organisms may cause long-term adverse effects in the
aquatic environment.
- Information concerning particular 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.

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Label elements

- Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals. The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product: Xi Irritant
- Hazard-determining components of labelling: Polyhexamethylenebiguanide

Risk phrases:

- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

- 23 Do not breathe gas/fumes/vapour/spray(appropriate wording to be specified by the manufacturer).
- 24 Avoid contact with skin.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 37/39 Wear suitable gloves and eye/face protection.
- 60 This material and its container must be disposed of as hazardous waste.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Other hazards

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

Section 4. First Aid Information

Description of first aid measures

| | | |
|---------------------|---|---|
| General information | : | No special measures required. |
| After inhalation | : | Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. |
| After skin contact | : | Immediately wash with water and soap and rinse thoroughly. |
| After eye contact | : | Rinse opened eye for several minutes under running water. If symptoms persist consult doctor. |
| After swallowing | : | Seek medical attention |

Information for doctor:

Most important symptoms and effects, both acute and delayed. - **No further relevant information available.**

Indication of any immediate medical attention and special treatment needed. - **No further relevant information available.**

Section 5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing agents : CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture - No further relevant information available.

Advice for fire-fighters

Protective equipment : Put on breathing apparatus

Section 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.

Section 7. Handling And Storage

Handling:

Precautions for safe handling : Ensure good ventilation/extraction at the workplace. Prevent formation of aerosols.

· Information about fire - and explosion protection : No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions : Keep receptacle tightly sealed.

Storage class:

· Class according to regulation on flammable liquids: Void

· Specific end use(s) : No further relevant information available.

Section 8. Exposure Controls / Personal Protection

Additional information about design of technical facilities

: No further data; see item 7.

Control parameters

Ingredients with limit values that require monitoring:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information

: The lists valid during the making were used as basis.

Exposure controls

General protective and hygienic measures

: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Protection of hands

: Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

: Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

: Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory protection

: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Eye protection

: Tightly sealed goggles

Section 9. Stability And Reactivity

Reactivity

Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions : No dangerous reactions known.

Conditions to avoid : No further relevant information available.

Incompatible materials : No further relevant information available.

Hazardous decomposition products : No dangerous decomposition products known.

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Section 10. Physical And Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance:

| | | |
|---|---|---|
| Form | : | Liquid |
| Colour | : | Colourless to pale straw |
| Odour | : | Characteristic |
| Odour threshold | : | Not determined. |
| pH-value at 20 °C | : | 6 - 8 (pH indicator strip) |
| Change in condition | | |
| Melting point/Melting range | : | Undetermined. |
| Boiling point/Boiling range | : | 100 oC |
| Flash point | : | Not applicable. |
| Flammability (solid, gaseous) | : | Not applicable. |
| Ignition temperature: | | |
| Decomposition temperature | : | Not determined. |
| Self-igniting | : | Product is not self-igniting. |
| Danger of explosion | : | Product does not present an explosion hazard. |
| Explosion limits: | | |
| Lower | : | Not determined. |
| Upper | : | Not determined. |
| Vapour pressure at 20 °C | : | 23 hPa |
| Density | : | 1 g/cm ³ |
| Relative density | : | Not determined. |
| Vapour density | : | Not determined. |
| Evaporation rate | : | Not determined. |
| Solubility in / Miscibility with water | : | Fully miscible. |
| Partition coefficient (n-octanol/water) | : | Not determined. |
| Viscosity: | | |
| Dynamic | : | Not determined. |
| Kinematic | : | Not determined. |
| Solvent content: | | |
| Water | : | >85 % |
| Solids content | : | <15 % |
| Other information | : | No further relevant information available. |

Section 11. Toxicological Information / Health Effects

Information on toxicological effects

Acute toxicity:

| | | |
|-------------------------|---|---|
| Primary irritant effect | : | |
| on the skin | : | Irritant to skin and mucous membranes. |
| on the eye | : | Strong irritant with the danger of severe eye injury. |
| Sensitization | : | Sensitization possible through skin contact. |

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

Section 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. |
| Ecotoxicological effects: | |
| Remark | : Harmful to fish |
| Additional ecological information: | |
| General notes | : Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Harmful to aquatic organisms |
| Results of PBT and vPvB assessment | |
| PBT | : Not applicable. |
| vPvB | : Not applicable. |
| Other adverse effects | : No further relevant information available. |

Section 13. Disposal Considerations

| | |
|-------------------------------------|---|
| <i>Waste treatment methods</i> | |
| <i>Recommendation</i> | : <i>Must not be disposed together with household garbage. Do not allow product to reach sewage system.</i> |
| <i>Uncleaned packaging:</i> | |
| <i>Recommendation</i> | : <i>Disposal must be made according to official regulations.</i> |
| <i>Recommended cleansing agents</i> | : <i>Water, if necessary together with cleansing agents.</i> |

Section 14. Transport Information : Road and Rail Only

| | |
|---|-------------------|
| UN-Number | |
| ADR, ADN, IMDG, IATA | : Not Applicable |
| UN proper shipping name | |
| ADR, ADN, IMDG, IATA | : Not Applicable |
| Transport hazard class(es) | |
| ADR, ADN, IMDG, IATA | : Not Applicable |
| Class | : Not Applicable |
| Packing group | |
| ADR, IMDG, IATA | : Not Applicable |
| 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 |

Section 15. Regulatory Information / EEC Classification

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. |

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Section 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

| | |
|--------|--|
| R21/22 | Harmful in contact with skin and if swallowed. |
| R36/38 | Irritating to eyes and skin |
| R36 | Irritating to eyes |