NOTE: To further assist with the interpretation of the MSDS, explanatory notes have been added in italics

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier
Product Name: F10SC Veterinary Disinfectant

Relevant identified uses of the substance or mixture and uses advised against
As an antimicrobial disinfectant solution, used for the disinfection of hard surfaces, equipment and air spaces.

Details of the supplier of the safety data sheet
Company name: Health and Hygiene (Pty) Ltd
Full address: PO Box 906, Florida Hills 1716, South Africa.
Telephone number: +27 11 474-1668
E-mail address of competent person responsible for the SDS: info@healthandhygiene.co.za

Emergency telephone number
Emergency telephone number: +27 11 474-1668
Hours of operation: 8:00am to 4:30pm
Service is provided in the following language: English

SECTION 2: Hazards identification (refers to the F10SC Veterinary Disinfectant undiluted product)

GHS classification:
Signal Word
Danger

<table>
<thead>
<tr>
<th>Hazard class</th>
<th>Hazard category</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye damage/irritation</td>
<td>1</td>
<td>On the basis of GLP test data</td>
</tr>
<tr>
<td>Chronic Aquatic toxicity</td>
<td>3</td>
<td>GHS classification</td>
</tr>
</tbody>
</table>

Hazard statements
H318: Causes serious eye damage
H412: Harmful to aquatic life
Precautionary statements
P280: Wear correct eye safety equipment when handling this mixture.
P273: Avoid release into the environment
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Contact Poison centre/doctor/physician.
P501: Dispose of container in suitable manner as is required by country legislation
P101: If medical advice is needed, have product container or label at hand
P102: Keep out of reach of children
P103: Read label before use

SECTION 3: Composition/Information on ingredient

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS Number</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzalkonium chloride</td>
<td>68424-85-1</td>
<td>1-10 %</td>
</tr>
<tr>
<td>Polymeric Biguanide Hydrochloride</td>
<td>27083-27-8</td>
<td>0.1-1 %</td>
</tr>
<tr>
<td>Ingredients determined not to be hazardous</td>
<td>Balance</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

Following contact with eyes
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for at least 15 minutes, or until advised to stop by the Poisons Information Centre or a doctor, Seek immediate medical attention.

Following skin contact
Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard.

Following inhalation
Move the person to fresh air. Contact a physician if required.

Following ingestion
Do not induce vomiting. Wash out mouth thoroughly with water.

Advice to Doctor
Treat symptomatically.
Most important symptoms and effects, both acute and delayed

**Eyes:** May be some pain and reddening of the eye, which will moderate after some time

**Skin:** None

**Inhalation:** None

**Ingestion:** Ingestion of the concentrate may cause irritation to mouth, throat and digestive tract

**Environment:** Is known to cause long term adverse effects in an aquatic environment. (Refers to the F10SC Veterinary Disinfectant undiluted product)

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

Follow First Aid Procedures.

SECTION 5: Fire-fighting measures

**Suitable Extinguishing media**

Use appropriate fire extinguisher for surrounding environment.

**Hazards from Combustion Products**

Non-combustible material.

**Specific Hazards Arising from the chemical**

This product is non-combustible. However heating can cause expansion or decomposition leading to violent rupture of containers.

**Special protective equipment and precautions for fire fighters**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location
SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment and clothing to prevent exposure to clothing, skin and eyes. Increase ventilation. Dispose of waste according to the applicable local and national regulations.

Environmental precautions

If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

Methods and materials for containment and clean up

If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable container. Do not dilute material but contain it.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid skin or eye contact. Keep containers sealed when not in use. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, and smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulation.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

Biological Limit Values

No biological limits allocated.
Appropriate Engineering Controls
No engineering controls required

Respiratory Protection
No respiratory protection required

Eye Protection
Wear eye protection.

Hand Protection
None required, however care should be exercised to prevent contact with skin.

SECTION 9: Physical and chemical properties

- Appearance: clear, colourless liquid.
- Odour: characteristic odour
- Odour threshold: not available
- pH: 7.5
- Melting point/freezing point: not available
- Boiling point: 100°C
- Flash point: not available
- Evaporation rate: not available
- Flammability: not combustible
- Vapour pressure: not available
- Vapour density (air=1) not available
- Density: 1.0
- Solubility in water: soluble
- Partition coefficient: not known
- Auto-ignition temperature: not available
- Decomposition temperature: not available
- Viscosity: 5 mpa
SECTION 10: Stability and reactivity

**Chemical stability**
Stable under normal conditions of storage and handling.

**Possibility of hazardous reactions**
Stable under normal conditions of storage and handling

**Conditions to Avoid**
Do not mix with soaps and other chemicals.

**Incompatible materials**
Anionic detergents / chemicals.

**Hazardous Decomposition Products**
Not available

**Possibility of hazardous reactions**
Not available

---

SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Packed Concentrate</th>
<th>Use Dilutions (1:100 and higher)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Oral Toxicity: (Rat)</td>
<td>Toxicity&gt;2000mg per kg</td>
<td>No toxicity (&gt;200000mg per kg)</td>
</tr>
<tr>
<td>Acute Dermal Toxicity: (Rat)</td>
<td>Toxicity &gt;5000mg per kg</td>
<td>No toxicity (&gt;500 000mg per kg)</td>
</tr>
<tr>
<td>Acute Eye Irritation</td>
<td>Causes serious eye damage</td>
<td>None</td>
</tr>
<tr>
<td>Acute Dermal Irritation</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Acute Inhalation Toxicity</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>Not a skin sensitizer</td>
<td>Not a skin sensitizer</td>
</tr>
<tr>
<td>Carcinogenicity, mutagenicity</td>
<td>Based on data for the raw materials, no carcinogenic, mutagenic or toxicity for reproduction is predicted</td>
<td></td>
</tr>
</tbody>
</table>
Ingestion
Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation
None

Skin
None

Eye
May Cause eye damage.

Respiratory sensitation
Not a respiratory sensitizer.

Skin Sensitisation
Not a skin sensitizer.

STOT-single exposure
Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure
Not expected to cause toxicity to a specific target organ.

Aspiration Hazard
Not expected to be an aspiration hazard.

SECTION 12: Ecological information

Eco toxicity
The available ecological data is given below.

Persistence and degradability
Biodegradable

Mobility
Not mobile

Bioaccumulative Potential
Not available
Other Adverse Effects
Not available

Environmental Protection
Prevent this material entering waterways, drains and sewers.

Acute Toxicity – Fish
LC50 (fish): Not available

Acute Toxicity – Daphnia
LC50 (Daphnia): Not available

SECTION 13: Disposal considerations
The disposal of the spill waste material must be done in accordance with applicable local and national regulations.

SECTION 14: Transport information (according to SANS 10228 and 10229-1)
UN Number: None allocated
UN Proper Shipping Name: None allocated

Transport Hazard Classes
None allocated

IMDG Marine pollutant
No

SECTION 15: Regulatory information
Classified as Hazardous according to SANS 10234:2008: Globally Harmonised System of Classification and labelling of Chemicals (GHS).
Act 36 Registration Number: 3070
SECTION 16: Other information

16.1 Abbreviations and acronyms

- **CAS**: Chemical Abstracts Service
- **PBT**: Persistent, bio-accumulative and toxic
- **REACH**: Registration, Evaluation and Authorisation of Chemicals
- **SDS**: Safety Data Sheet
- **vPvB**: Very persistent, very bio-accumulative
- **w/w**: Weight by weight

Other Information

**Date of preparation or last revision of SDS**
SDS Created: October 2015. Prepared according to SANS 10234:2008: Globally Harmonized System of classification and labelling of chemicals (GHS)

**References**
- SANS 10234:2008: Globally Harmonized System of classification and labelling of chemicals (GHS)
- SANS 10234:2008: ANNEX C: Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice
- SANS 10228: The identification and classification of dangerous goods for transport