1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information: MALASEB SHAMPOO 8OZ

Product Name: Malaseb Shampoo
MSDS Number: 12200009847
Use: Product care for animals

Company
Bayer HealthCare, LLC
Animal Health Division
12707 Shawnee Mission Parkway
(West 63rd)
Shawnee, KS 66216-1846
UNITED STATES OF AMERICA
(800) 633-3796

In case of emergency: (800) 422-9874
Chemetrec: (800) 424-9300
BAYER INFORMATION PHONE: (800) 633-3796
INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

Form: liquid

GHS Classification:
Serious eye damage: Category 1

GHS Label element:
Hazard pictograms:

Signal word: Danger

Hazard statements: H318 Causes serious eye damage.
Precautionary statements: Prevention:
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

**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.
P310 Immediately call a POISON CENTER or doctor/ physician.

**Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification:**
None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Weight percent</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 - 10%</td>
<td>Laureth-3 to Laureth-13</td>
<td>9002-92-0</td>
</tr>
<tr>
<td>2.2%</td>
<td>Chlorhexidine Diguconate</td>
<td>18472-51-0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Ingredients</th>
<th>Weight percent</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.9%</td>
<td>Miconazole</td>
<td>22916-47-8</td>
<td></td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**General advice:** Take off all contaminated clothing immediately.

**If inhaled:** Remove to fresh air. Call a physician immediately.

**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If swallowed:** If swallowed, seek medical advice immediately and show this container or label.

**Contact Number:** Use the Bayer Emergency Number in Section 1
5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Fire may cause evolution of: Carbon monoxide (CO)
Carbon dioxide (CO2)

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Methods for cleaning up: Cover spilt product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labelled, closable containers.

Additional advice: No special precautions required.

Further Accidental Release Notes: No special precautions required.

7. HANDLING AND STORAGE

Handling: Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

8. EXPOSURE CONTROLS/PERSOMAL PROTECTION

Laureth-3 to Laureth-13 (9002-92-0)
Cetrimonium Chloride (112-02-7)

Respiratory protection: Recommended Filter type: Organic vapor with prefilter
Hand protection:
Chemically resistant gloves.

Eye protection:
Safety glasses

Other protective measures:
Wear suitable protective equipment.

Please consult label for end-user requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid
Colour: No applicable information is available
Odour: No applicable information is available
Odour Threshold: No applicable information is available
Melting point: No applicable information is available
Boiling point/boiling range: No applicable information is available
Density: No applicable information is available
Bulk density: No applicable information is available
Vapour pressure: No applicable information is available
Viscosity, dynamic: No applicable information is available
Viscosity, kinematic: No applicable information is available
Flow time: No applicable information is available
Surface tension: No applicable information is available
Miscibility with water: No applicable information is available
Water solubility: No applicable information is available
pH: No applicable information is available
Relative density: No applicable information is available
Partition coefficient: No applicable information is available
Solubility(ies): No applicable information is available
Flash point: No applicable information is available
Flammability (solid, gas): No applicable information is available
Ignition temperature: No applicable information is available
Explosion limits: No applicable information is available

10. STABILITY AND REACTIVITY

Conditions to avoid: no data available

Materials to avoid: Oxidizing agents

Hazardous reactions: no data available
Thermal decomposition:
no data available

Hazardous decomposition products:
Carbon monoxide (CO), Carbon dioxide (CO2)

Oxidizing properties:
No statements available.

Impact Sensitivity:
no data available

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:
Laureth-3 to Laureth-13
LD50 rat: 9,060 mg/kg

LD50 mouse: 1,170 mg/kg

LD50 guinea pig: 384 mg/kg

LD50 rat: 1,000 mg/kg

Chlorhexidine Digluconate
LD50 rat, female/male: > 2,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity:
Chlorhexidine Digluconate
TCL0 rat: 120 ppm, 4 h

Acute dermal toxicity:
Chlorhexidine Digluconate
rabbit: > 5,000 mg/kg
The substance or mixture has no acute dermal toxicity
Method: US-EPA

Acute toxicity (other routes of administration):
Laureth-3 to Laureth-13
LD50 intraperitoneal rat: 125 mg/kg

LD50 subcutaneous rat: 953 mg/kg

LD50 intravenous rat: 27 mg/kg

Chlorhexidine Digluconate
LD50 subcutaneous rat: 3,320 mg/kg

LD50 intravenous rat: 24.2 mg/kg
Skin irritation:
Laureth-3 to Laureth-13
Human experience
Result: Moderate skin irritation
Method: Draize Test

rabbit
Result: Mild skin irritation
Method: Draize Test

Human experience
Result: No skin irritation
Method: Patch Test 24 Hrs.

Chlorhexidine Digluconate
rabbit
Classification: No skin irritation
Result: Mild skin irritation
Method: OECD Test Guideline 404

Human experience
Result: Mild skin irritation

Eye irritation:
Laureth-3 to Laureth-13
rabbit
Result: Severe eye irritation
Method: Draize Test

Chlorhexidine Digluconate
rabbit
Result: Causes serious eye damage.
Method: OECD Test Guideline 405
Test substance: 20% solution

Sensitisation:
Laureth-3 to Laureth-13
Skin Human experience
Result: Does not cause skin sensitization.

Chlorhexidine Digluconate
Skin sensitization guinea pig
Result: ambiguous
Method: Buehler Test

Skin sensitization guinea pig
Result: Does not cause skin sensitization.

Method: OECD Test Guideline 406

Subacute, subchronic and prolonged toxicity:
Chlorhexidine Digluconate
Lowest observable effect level 8.88 mg/kg, rat male and female Oral, Exposure time 24 month
Method: OECD TG 452
NOEL 400 mg/kg, Monkey male and female Dermal, Exposure time 13 Weeks
Number of exposures: once daily

**Genotoxicity in vitro:**
Chlorhexidine Digluconate
Ames test Salmonella typhimurium
Dose: with or without metabolic activation
Result: negative
Method: OECD TG 471
Test substance: 20% solution

V79-HPRT Forward Mutation Assay  Hamster V79-cells
Dose: with or without metabolic activation
Result: negative
Method: OECD TG 476
Test substance: 20% solution

Chromosome aberration test in vitro  Hamster ovary-cells
Dose: with or without metabolic activation
Result: negative
Method: OECD TG 473

**Genotoxicity in vivo:**
Chlorhexidine Digluconate
Micronucleus test, mouse, male, bone-marrow erythroblasts, Intraperitoneal
Result: negative
Method: OECD TG 474

**Carcinogenicity:**
Chlorhexidine Digluconate
rat:
Exposure time: 2 a
Test substance: 20% solution
Method: OECD TG 408
Result: Animal testing did not show any carcinogenic effects.

LOAEL rat:
5 mg
Exposure time: 2 a
Test substance: 20% solution
Method: OECD Test Guideline 451
Result: Animal testing did not show any carcinogenic effects.

**Teratogenicity:**
Chlorhexidine Digluconate
Application Route: Oral
rat: Exposure time: 13 d
Number of exposures: once daily
NOAEL: 30 mg/kg
Test substance: 20% solution
Result: Did not show teratogenic effects in animal experiments.
Method: OECD TG 414

**Pharmaceutic effects:**
Carcinogenicity:
No Carcinogenic substances as defined by IARC, NTP and/or OSHA

Experience with human exposure:
Components:
18472-51-0:
The product causes irritation of eyes, skin and mucous membranes. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

STOT - single exposure:
no data available

STOT - repeated exposure:
no data available

12. ECOLOGICAL INFORMATION

General advice:
Do not allow to enter surface waters or groundwater.

Toxicity to fish:
Laureth-3 to Laureth-13
semi-static test: LC50 3.3 mg/l
Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Chlorhexidine Digluconate
semi-static test: LC50 2.08 mg/l
Test species: Danio rerio (zebra fish) Test substance: 20% solution Duration of test: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:
Chlorhexidine Digluconate
Immobilization EC50 0.087 mg/l
Test species: Daphnia magna (Water flea) Duration of test: 48 h
Method: OECD Test Guideline 202
Test substance: 20% solution

Toxicity to algae:
Chlorhexidine Digluconate
Growth rate EC50 0.081 mg/l
tested on: Desmodesmus subspicatus (green algae) Duration of test: 72 h
Method: OECD Test Guideline 201
Test substance: 20% solution

Biomass NOEC 0.0075 mg/l
tested on: Desmodesmus subspicatus (green algae) Duration of test: 72 h
Method: OECD Test Guideline 201
Test substance: 20% solution
Biomass EC50 0.038 mg/l
tested on: Desmodesmus subspicatus (green algae) Duration of test: 72 h
Method: OECD Test Guideline 201
Test substance: 20% solution

**Toxicity to bacteria:**
Laureth-3 to Laureth-13
IC50 100 mg/l
tested on: Pseudomonas putida

Chlorhexidine Digluconate
Respiration inhibition EC50 25 mg/l
tested on: activated sludge micro-organism
Duration of test: 3 h
Method: OECD TG 209
Test substance: 20% solution

Cell multiplication inhibition test EC0 3 mg/l
tested on: Pseudomonas putida
Method: DIN 38412
Test substance: 20% solution

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**
Chlorhexidine Digluconate semi-static test:
NOEC 0.02 mg/l
Test species: Daphnia magna (Water flea) Duration of test: 21 d
Method: OECD Test Guideline 211

semi-static test:
LOEC 0.06 mg/l
Test species: Daphnia magna (Water flea) Duration of test: 21 d
Method: OECD Test Guideline 211

semi-static test:
EC50 0.03 mg/l
Test species: Daphnia magna (Water flea) Duration of test: 21 d
Method: OECD Test Guideline 211

**Toxicity on soil-dwelling organisms**
Chlorhexidine Digluconate LC50 from 1,000 mg/kg
Test species: Eisenia fetida (earthworms) Duration of test: 14 d
Method: OECD 207
Test substance: 20% solution

**Biodegradability:**
Chlorhexidine Digluconate
70 %, 10 d rapidly biodegradable
Test substance: 20% solution
Method: Tested according to Directive 92/69/EEC.
Bioaccumulation:
Chlorhexidine Digluconate
0.050 mg/L Leuciscus idus (Golden orfe) 3 d 25 °C

Bioconcentration factor (BCF)
42
Low potential for bioaccumulation

Photodegradation:
Chlorhexidine Digluconate
Air
half-life time (direct Photolysis): < 1.3 h

13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION

Land transport (CFR)
non-regulated

US Sea transport (IMDG)
non-regulated

US Air transport (ICAO / IATA cargo aircraft only)
non-regulated

US Air transport (ICAO / IATA passenger and cargo aircraft)
non-regulated

International IATA
IMDG
non-regulated
non-regulated

15. REGULATORY INFORMATION

Other regulations: No statements available.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)
Components
None
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required
Components
None

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components
None

California Prop. 65
To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION

Further information
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.