This SDS packet was issued with item:

078925055

N/A





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SECTION 1. IDENTIFICATION

Product information

Product Name : Claro® Otic Solution SDS Number : 122000013292

Use : veterinary medicine

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

Chemtrec: (800) 424-9300

BAYER INFORMATION PHONE: (800) 633-3796

INTERNATIONAL:(703) 527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 3

Eye irritation : Category 2A

GHS label elements

Hazard pictograms :





Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements : Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equip-

ment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.



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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propylene carbonate	108-32-7	49.9999
Ethanol	64-17-5	6
Terbinafine Hydrochloride	78628-80-5	1.5

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : If symptoms persist, call a physician.

In case of skin contact : If skin reactions occur, contact a physician.

In case of eye contact : Flush eyes with water as a precaution.

If swallowed : In case of accidental ingestion, contact your regional poison

center or physician immediately.

Most important symptoms

and effects, both acute and

delayed

No information available.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire-

fighting

: Fire may cause evolution of:

Carbon monoxide (CO)
Carbon dioxide (CO2)

Further information : Prevent fire extinguishing water from contaminating surface

water or the ground water system.

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





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for firefighters Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Remove all sources of ignition.

Keep away from/remove sources of ignition.

Methods and materials for

containment and cleaning up

Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechani-

cally and fill into labeled, closable containers.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Keep away from open flames, hot surfaces and sources of

ignition.

Take measures to prevent the build up of electrostatic charge.

Avoid formation of aerosol. Advice on safe handling

Conditions for safe storage Store at temperatures and conditions as indicated on the

product label.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
Polyethyleneglycol	25322-68-3	TWA (aero- sol)	10 mg/m3	US WEEL
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection Recommended Filter type:

Organic vapor with prefilter

None required for consumer use of this product.

Hand protection

Material Chemically resistant gloves.

Remarks None required for consumer use of this product.





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Eye protection : Safety glasses

None required for consumer use of this product.

Protective measures : Wear suitable protective equipment.

Please consult label for end-user requirements.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, yellowish

pH : 4.0 - 6.0 (77 °F / 25 °C)

Flash point : $113 \,^{\circ}\text{F} / 45 \,^{\circ}\text{C}$

Density : 1 g/cm³ (68 °F / 20 °C)

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Impact sensitivity : No data available

Minimum ignition energy : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : No data available

Possibility of hazardous reac- :

tions

No data available

Conditions to avoid : No data available

Incompatible materials : Oxidizing agents

Hazardous decomposition

lazardous decomposition

products

Carbon monoxide (CO)
Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:



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Acute oral toxicity : Acute toxicity estimate (ATE): > 5,000 mg/kg

Method: Calculation method

Components:

Propylene carbonate:

Acute oral toxicity : LD50 (Rat): 32,100 mg/kg

Assessment: No adverse effect has been observed in acute

toxicity tests.

Acute inhalation toxicity : Exposure time: 8 h

Assessment: No adverse effect has been observed in acute

toxicity tests.

Remarks: An LC50/inhalation/8h/rat could not be determined because no mortality of rats was observed at the maximum

achievable concentration.

Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg

Assessment: No adverse effect has been observed in acute

toxicity tests.

Ethanol:

Acute oral toxicity : LD50 (Rat): 10,470 mg/kg

Method: OECD 401

Acute dermal toxicity : LD50 (Rabbit): 15,800 mg/kg

Terbinafine Hydrochloride:

Acute oral toxicity : TDLo (Human, female): 210 mg/kg

LD50 (Rat, male and female): > 4,000 mg/kg

Method: OECD 401

Assessment: No adverse effect has been observed in acute

toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: No adverse effect has been observed in acute

toxicity tests.

Acute toxicity (other routes of:

administration)

LD50 (Rat): > 2,000 mg/kg

Application Route: Subcutaneous

Skin corrosion/irritation

Components:

Propylene carbonate:

Species : Rabbit
Method : OECD 404
Result : No skin irritation

Ethanol:



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Species : Rabbit
Method : OECD 404
Result : No skin irritation

Terbinafine Hydrochloride:

Result : Skin irritation

Serious eye damage/eye irritation

Components:

Propylene carbonate:

Species : Rabbit
Result : Eye irritation
Method : OECD 405

Ethanol:

Species : Rabbit

Result : Causes serious eye irritation.

Assessment : Irritating to eyes. Method : OECD 405

Terbinafine Hydrochloride:

Result : Eye irritation

Respiratory or skin sensitisation

Components:

Propylene carbonate:

Result : Does not cause skin sensitisation.

Ethanol:

Test Type : Skin sensitisation Species : Guinea pig

Method : Local lymph node test (LLNA)
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Propylene carbonate:

Genotoxicity in vivo : Result: No indication of mutagenic effects.

Ethanol:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Method: OECD 471 Result: negative



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Test Type: Mouse lymphoma assay

Method: OECD 476 Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vivo

Species: Mouse Method: OECD 478 Result: ambiguous

Test Type: Micronucleus test

Species: Mouse Method: OECD 474 Result: negative

Carcinogenicity

IARC Group 1: Carcinogenic to humans

Ethanol 64-17-5

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:

Ethanol:

Effects on fertility : Species: Mouse

Application Route: Oral

General Toxicity - Parent: NOAEL: 15 % General Toxicity F1: NOAEL: 10 % General Toxicity F2: NOAEL: < 15 %

Method: OECD 416

Result: Animal testing did not show any effects on fertility.

STOT - single exposure

Components:

Terbinafine Hydrochloride:

Assessment : May cause respiratory irritation.

Repeated dose toxicity

Components:

Terbinafine Hydrochloride:

Species : Monkey LOAEL : 54,600 mg/kg

Application Route : Oral



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Exposure time 4,368 h **Target Organs** Eyes

Further information

Components:

Ethanol:

Remarks Breathing of the fumes may lead to narcotic symptoms.

Remarks If inhaled:

> Headache Vomiting Nausea

Remarks After absorption of large quantities

> hypotension Coma

Unconsciousness respiratory paralysis

Terbinafine Hydrochloride:

Pharmaceutic effects

Remarks Antimycotic

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Propylene carbonate:

Toxicity to fish LC50 (Leuciscus idus (Golden orfe)): ca. 5,300 mg/l

Exposure time: 96 h Test Type: static test Method: DIN 38412

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae/aquatic

plants

(Desmodesmus subspicatus (green algae)): > 500 mg/l Exposure time: 72 h

Test Type: static test Method: DIN 38412

EC20 (Activated sludge micro-organism): > 800 mg/l Toxicity to microorganisms

Exposure time: 0.5 h Method: ISO 8192

Ecotoxicology Assessment

Acute aquatic toxicity slightly hazardous to water



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Ethanol:

Toxicity to microorganisms : Toxic limit concentration (Pseudomonas putida): 6,500 mg/l

Terbinafine Hydrochloride:

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.35 mg/l

Exposure time: 48 h Test Type: Immobilization Method: OECD 202

GLP: yes

Remarks: Nominal concentration

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 0.029

mg/l

Exposure time: 72 h Test Type: Growth rate Analytical monitoring: yes Method: OECD 201

GLP: yes

M-Factor (Acute aquatic tox- :

icity)

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Persistence and degradability

Components:

Propylene carbonate:

Biodegradability : Result: rapidly biodegradable

BOD/ThOD : 86 %

Dissolved organic carbon

(DOC)

90 - 100 %

Method: ISO 7827

Ethanol:

Biodegradability : Result: rapidly biodegradable

Terbinafine Hydrochloride:

Biodegradability : aerobic

Inoculum: Activated sludge micro-organism

Concentration: 10 mg/l Result: Not biodegradable Biodegradation: 4 % Exposure time: 28 d Method: OECD 301 B

GLP: yes



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Bioaccumulative potential

Components:

Propylene carbonate:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Partition coefficient: n-

octanol/water

log Pow: -0.48 (77 °F / 25 °C)

Ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: -0.320

Terbinafine Hydrochloride:

Partition coefficient: n-

octanol/water

log Pow: 5.342

Mobility in soilNo data available

Other adverse effects

Product:

Components:

Propylene carbonate:

Adsorbed organic bound

halogens (AOX)

: Remarks: Product does not contain any organic halogens.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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)

SECTION 14. TRANSPORT INFORMATION

Please note that limited quantities, consumer commodity regulations or other exemptions may apply.

Land transport (CFR)



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Proper shipping name: ETHANOL SOLUTION

Hazard Class or Division: 3
UN/NA Number 1170
Packaging group III

Hazard Label(s): Flammable Liquid

Sea transport (IMDG)

UN Number 1170

Description of the goods ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Class3Packaging groupIIIIMDG-Labels3EmS NumberF-EMarine pollutantno

Air transport (IATA)

UN Number 1170

Description of the goods ETHANOL SOLUTION

Class 3
Packaging group III
Dangerous goods labels 3
Environmentally hazardous no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Propane-1,2-diol 57-55-6 15 %



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Polyethyleneglycol 25322-68-3 10 % Ethanol 64-17-5 6 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Ethanol 64-17-5

Pennsylvania Right To Know

Propane-1,2-diol 57-55-6 Ethanol 64-17-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

New York City Hazardous Substances

Ethanol 64-17-5

California Permissible Exposure Limits for Chemical Contaminants

Ethanol 64-17-5

The components of this product are reported in the following inventories:

TSCA : Substance(s) not listed on TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

Health - 2 Flammability - 2 Instability - 0 Others -

HMIS® IV:

Health - 2 Flammability - 2 Instability - 0 Others -

Full text of other abbreviations



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ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average

US WEEL / TWA : 8-hr TWA

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