



MATERIAL SAFETY DATA SHEET

C. E. T.[®] Oral Hygiene Rinse

Product Code: CET501

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

Product Name C. E. T.[®] Oral Hygiene Rinse
Product Description Oral hygiene rinse for cats and dogs
Manufacturer/Supplier Virbac AH, Inc.
Address P.O. Box 162059
Fort Worth, Texas 76161
Phone Number (800) 338-3659
Chemtrec Number (24 hour) (800) 424-9300
Other Emergency Numbers: Poison Control Center: 1-800-222-1222
MSDS Revision Date: 27 August 2012
Supersedes MSDS Dated: June 20, 2011

Material Safety Data Sheet in compliance with OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

For animal use only.
Keep out of reach of children.
Read entire label before each use.

Routes of Entry

Eye contact - Skin contact - Ingestion - Inhalation

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

Eyes - Skin

Health Effects - Eyes

Contact with eyes may cause slight irritation.

Health Effects - Skin

Contact with skin may cause slight irritation.

Health Effects - Ingestion

Ingestion of large quantities of this material may cause gastrointestinal effects such as nausea, vomiting, diarrhea, and abdominal cramps.

Health Effects - Inhalation

No adverse effects are expected during normal conditions of use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Chlorhexidene Gluconate	18472-51-0	~0.12%
Sorbitol	50-70-4	10 - 20%
Zinc Glutamate	4468-02-4	<0.1%
Glycerine	56-81-5	45 - 55%
Cetylpyridinium chloride monohydrate	6004-24-6	0.05%



4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15-20 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

If irritation develops wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

Ingestion

Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

Advice to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards

Can release hazardous vapors during a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing. Wipe up and transfer into suitable containers for recovery or disposal. Prevent the material from entering drains or watercourses.

7. HANDLING AND STORAGE

Store in original container at room temperature. Store away from children and pets. Avoid contact with eyes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Chlorhexidene Gluconate

None established

Zinc Gluconate

None established

Sorbitol

None established

Cetylpyridinium Chloride Monohydrate

None established



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Glycerin (Mist)

ACGIH: TLV 10 mg/m³ 8h TWA.

OSHA: PEL 5 mg/m³ 8h TWA respirable fraction
15mg/m³ 8h TWA total dust

Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Respiratory Protection

Not required under normal conditions of use.

Hand Protection

Protective gloves.

Eye Protection

Not required under normal conditions of use.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solution
Color	Colorless to light tan, hazy water solution
Odor	Orange
pH	No data available
Specific Gravity	No data available
Boiling Range/Point (°C/F)	No data available
Melting Point (°C/F)	No data available
Flash Point (PMCC) (°C/F)	Not flammable
Explosion Limits (%)	No data available
Vapor Pressure	No data available
Density	No data available
Solubility in Water	No data available
Vapor Density (Air = 1)	No data available

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Heat - high temperatures

Materials to Avoid

Strong oxidizers

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Oxides of carbon - acrolein



11. TOXICOLOGICAL INFORMATION

See product packaging for additional information.

Acute Toxicity

Chlorhexidine Gluconate: Oral LD50 (rat) (male) 2,292 mg/kg (female) 3,055 mg/kg (analogous compound) Dermal LD50 (rabbit) >2000 mg/kg (analogous compound) Inhalation LC50 (rat) 0.30mg/l (males), 0.43 mg/l (females) (analogous compound)

Glycerin: Oral LD50 (Rat) 12,600 mg/kg

Sorbitol: Oral LD50 (rat) 15,900 mg/kg

Cetylpyridinium Chloride Monohydrate: LD50 Oral (rat) 560 mg/kg, LD50 Dermal (rabbit) >5000 mg/kg LC50 Inhalation (rat) 0.09mg/L 4hrs for aerosolized CPC only

Specific Target Organ Systemic Toxicity (single and repeat)

Chlorhexidine Gluconate: In a dermal toxicity study with rabbits that were topically treated, systemic liver effects were noted at the 500mg/kg/day level. (analogous compound)

Sorbitol: Reports of adverse reactions to sorbitol are largely due to its action as an osmotic laxative when ingested orally, which may be exploited therapeutically. Ingestion of large quantities of sorbitol (> 20g/day in adults) should therefore be avoided.

Serious Eye damage/Eye Irritation

Chlorhexidine Gluconate: Irritating to the eye. (analogous compound)

Glycerin: Animal studies have shown glycerin to be not irritating or slightly irritating to eyes.

Cetylpyridinium Chloride Monohydrate: Can cause severe irritation of the eyes (OECD 404 & 405).

Skin Corrosion/Irritation

Chlorhexidine Gluconate: Subchronic toxicity, rat, dermal – dermal irritant (analogous compound)

Glycerin: Human skin tests have shown glycerin to be slightly irritating.

Cetylpyridinium Chloride Monohydrate: Can cause severe irritation of the eyes (OECD 404 & 405).

Respiratory or Skin Sensitization

Cetylpyridinium Chloride Monohydrate: Not a contact sensitizer per Buehler dermal sensitization assay (OECD 406).

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

Chlorhexidine Gluconate: Gene mutation – no adverse effect (analogous compound)

Chlorhexidine Gluconate: Chromosome effects – no adverse effects (analogous compound)

Chlorhexidine Gluconate: DNA Damage – no adverse effects (analogous compound)

Cetylpyridinium Chloride Monohydrate: Negative in Ames assay, both with and without metabolic activation.

Toxicity to Reproduction

Chlorhexidine Gluconate: Teratology- rat – no adverse effect (analogous compound)

Cetylpyridinium Chloride Monohydrate: Limited evidence of teratogenic effects: Investigators studied the offspring of 292 women using this substance as a medication in the first trimester of pregnancy and found 9 malformations. The rate was 31 congenital defects per 1000 while the mean rate was 16 per 1000. This increase was not statistically significant.

12. ECOLOGICAL INFORMATION

Mobility

Cetylpyridinium Chloride Monohydrate: If released to soil, cetylpyridinium chloride is expected to have low mobility. Quaternary ammonium compounds are known to sorb strongly and rapidly in well-mixed systems, to a wide variety of materials, such as sewage sludge, sediment and clay.

Persistence/Degradability

Cetylpyridinium Chloride Monohydrate: 25% Primary degradation after 38 days in OECD 301D closed bottle test.

Bio-accumulation

Cetylpyridinium Chloride Monohydrate: An estimated BCF of 5.7, based on a measured log Kow of 1.71, suggests the potential for bioconcentration in aquatic organisms is low.



12. ECOLOGICAL INFORMATION

Ecotoxicity

Chlorhexidine Gluconate: LC50 Oncorhynchus Mykiss (Rainbow trout, Donaldson trout) 1.9 ppm/96 hr
LC50 Lepomis macrochirus (Bluegill sunfish) 0.6 ppm/96 hr (analogous compd)

Cetylpyridinium Chloride Monohydrate: LC50 (Rainbow trout) 0.16 mg/l 96 hr
EC50 (Daphnia magna) 9.18 µg/l 48 hr

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance (TSCA) Inventory.

DSL (Canadian) Listing

This product contains ingredients that have not been verified for listing on the Domestic Substance List (DSL).

WHMIS Classification

This product is not a controlled substance under WHMIS.

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

MA Right To Know Law

This product contains the following chemicals on the Massachusetts Right to Know Law: None

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Glycerine (56-81-5)

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: Glycerine (56-81-5)

California Proposition 65

This product contains the following chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm: None

SARA Title III Sect. 311/312 Categorization

None

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None



16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 0
NFPA Code for Health - 1
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards – 0

HMIS Ratings

HMIS Code for Flammability - 0
HMIS Code for Health - 1
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8

Abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists
BOD: Biological Oxygen Demand
CAS#: Chemical Abstracts Service Number
FIFRA: Federal Insecticide, Fungicide and Rodenticide Act
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
N/A: Denotes no applicable information found or available
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

For further information call: (800) 338-3659

Prepared By: EnviroNet LLC

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