



MATERIAL SAFETY DATA SHEET
C. E. T.[®] Enzymatic Toothpaste – Vanilla Mint Flavor
CET103

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

Product Name C. E. T.[®] Enzymatic Toothpaste – Vanilla Mint Flavor
Product Description Toothpaste for cats and dogs
Manufacturer/Supplier Virbac AH, Inc.
Address P.O. Box 162059
Fort Worth, Texas 76161
Phone Number (800) 338-3659 for Technical Support
Chemtrec Number (24 hour) (800) 424-9300
Emergency Numbers: (800) 338-3568 for Human and Animal Medical Emergencies
MSDS Revision Date: March 30, 2011
Supersedes MSDS Dated: March 13, 2009

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

2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

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

Routes of Entry

Eye contact - Skin contact - Ingestion

Carcinogenic Status

See section 11.

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
Sorbitol	50-70-4	30 - 50%
Amorphous Silicon Dioxide	7631-86-9	1 - 10%
Glycerine	56-81-5	1 - 10%
Dicalcium Phosphate Anhydrous	7757-93-9	10 - 20%
Titanium Dioxide	13463-67-7	0.1 - <1.0%



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 in a cool, dry place. 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.

Sorbitol

None established

Amorphous Silicon Dioxide

None established

Glycerin (Mist)

ACGIH: TLV 10 mg/m³ 8h TWA.

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

Titanium Dioxide

ACGIH TLV: 10 mg/m³ TWA

OSHA PEL: 15 mg/m³ TWA, total dust



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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	Solid (paste)
Color	White to off-white
Odor	Mint, sweet
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

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

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

Amorphous Silicon Dioxide: Oral LD50 (rat) >5000 mg/kg, Dermal LD50 (rabbit) >5000 mg/kg

Dicalcium Phosphate Anhydrous: Oral LD50 (rat) > 10,000 mg/kg Dermal LD50 (rabbit) > 7,940 mg/kg



11. TOXICOLOGICAL INFORMATION

Specific Target Organ Systemic Toxicity (single and repeat)

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

Glycerin: Animal studies have shown glycerin to be not irritating or slightly irritating to eyes.
Dicalcium Phosphate Anhydrous: Eye Irritation - rabbit: 0.0/110.0; nonirritating

Skin Corrosion/Irritation

Glycerin: Human skin tests have shown glycerin to be slightly irritating.
Dicalcium Phosphate Anhydrous: Skin Irritation - rabbit: 0.0/8.0; nonirritating

Respiratory or Skin Sensitization

No relevant studies identified.

Carcinogenicity

Titanium Dioxide: IARC Overall Evaluation is 2B (Possibly carcinogenic to humans) IARC conclusions are based on evidence showing that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation. Human studies conducted so far do not suggest an association between occupational exposure to titanium dioxide and an increased risk for cancer. Since this product is a paste, the titanium dioxide is no longer in a dust form.

Germ Cell Mutagenicity

Dicalcium Phosphate Anhydrous: No adverse genetic changes were reported in standard tests using bacterial cells.

Toxicity to Reproduction

No relevant studies identified.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

Amorphous Silicon Dioxide: LC50 Fish (Brachydanio rerio) 1000 mg/l 96hr
EC50 Daphnia Magna >1000 mg/l 24 hr
EC50 Algae (scenedesmus subspicatus) ≥10000 mg/l 72hr
Dicalcium Phosphate Anhydrous: EC50 Daphnia magna: >1000 mg/L 96hr

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: Titanium Dioxide (13463-67-7)

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Glycerin (56-81-5) – Amorphous Silicon Dioxide (7631-86-9)

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: Amorphous Silicon Dioxide (7631-86-9) - Titanium Dioxide (13463-67-7)

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 - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards – 0

HMIS Ratings

HMIS Code for Flammability - 0

HMIS Code for Health - 0

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%



16. OTHER INFORMATION

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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