

SAFETY DATA SHEETS

This SDS packet was issued with item:

078043529

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078043511

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078043503

Identity:	Product Name: Uroeeze® Tablet or Powder	Page 1 of 2
	Product Code 852100, 852500, 854004, 854100, 854500	

Section I

Supplier Information:		Emergency Telephone Number
Name:	VIRBAC CORP. (Virbac AH Inc., Allerderm®, Francodex®, Mardel®, St. JON®, PMResources, Zema®)	Transportation: Chemtrec 800-424-9300 Other emergencies: POISON CONTROL CENTER or 911
Address:	P. O. BOX 162059	
City:	FORT WORTH	Telephone Number for Information
State:	TX 76161	Contact Virbac: 800/338-3659

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Special Chemical Identification; Common Name)	OSHA PEL	ACGIH TLV	STEL	CAS #	% (opt.)
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Uroeeze® Tablets and Powder are exempt from the requirements of the Occupational Health and Safety Administration (OSHA) Hazard Communication Standard (29CFR1910.1200). These products are exempt by OSHA because, under normal conditions of use, these formed products are believed to pose little risk to personnel who handle them in an occupational setting.

Ammonium Chloride	Not Applicable	Not Applicable	Not Applicable	2125-02-9	
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Section III - Physical/Chemical Characteristics

Boiling Point:	Not Applicable
Specific Gravity (H ₂ O = 1):	Not Applicable
Vapor Pressure (mm Hg):	Not Applicable
Melting Point:	Not Applicable
Vapor Density (AIR = 1):	Not Applicable
Evaporation Rate (Butyl Acetate = 1):	Not Applicable
Solubility in Water:	Soluble
Appearance and Odor:	Tablet or powder

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used):	Not Applicable
Flammable Limits:	LEL: Not Applicable UEL: Not Applicable
Extinguishing Media:	Water spray, dry chemical, carbon dioxide, or foam suitable for the surrounding fire and materials.
Special Firefighting Procedures:	Not Applicable.
Unusual Fire and Explosion Hazards:	Not Applicable

Section V - Reactivity Data

Stability	STABLE
Incompatibility	(Materials to Avoid): Strong Acids, Strong bases, Strong oxidizing agents
Hazardous Decomposition or Byproducts:	Ammonia, Hydrogen Chloride Gas
Hazardous Polymerization	WILL NOT OCCUR
Conditions to Avoid:	None known

Identity: Product Name: Uroeze® Tablet or Powder

Page 2 of 2

Product Code 852100, 852500, 854004, 854100, 854500

Section VI - Health Hazard Data

Routes of Entry: Inhalation? NO Skin? NO Ingestion? Yes

Health Hazards (Acute and Chronic): May be irritating to respiratory system, skin and eyes.

Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO

Signs and Symptoms of Exposure: None presently known.

Medical Conditions Generally Aggravated by Exposure: None presently known

Emergency and First Aid Procedures

INGESTED: If large quantities are swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center.

SKIN CONTACT: Wash affected areas promptly and thoroughly with soap and water. Rinse thoroughly. If irritation occurs, get medical attention.

EYE CONTACT: Immediately rinse eyes with water for a minimum of 15 minutes holding eye open. Remove contact lenses, if present, after the first 5 minutes. Call a physician if irritation persists.

INHALATION: Not Applicable

Note to Physician:

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: Vacuum or sweep up spillage, place in a bag or appropriate container and hold for waste disposal. Ventilate area and wash spill site after spillage is picked up completely.

Waste Disposal Method: Dispose of in accordance with all applicable federal, state, and local laws.

Precautions to be Taken in Handling or Storage: Store tightly sealed in the original container at controlled room temperature not to exceed 25°C (77°F).

Other Precautions: Keep out of the reach of children.

Section VIII - Control Measures

Respiratory Protection: Not necessary under recommended conditions of use.

Ventilation Local Exhaust: Not Applicable

Special: Not Applicable

Mechanical (General): Not Applicable

Protective Gloves: Rubber gloves for prolonged or repeated exposure.

Eye Protection: Not necessary under recommended conditions of use.

Other Protective Clothing or Equipment: None required.

Work/Hygienic Practices: Read and follow directions on product label.

Section IX - Additional Information

Uroeze, ALLERDERM and St. JON are registered trademarks of Virbac AH, Inc.

Francodex is a registered trademarks of VBSA.

Mardel and Zema are registered trademarks of Virbac Corporation.

Disclaimer of Expressed and Implied Warranties: This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions.

Prepared by Regulatory Affairs.

New MSDS Dated: August 23, 2006

Supersedes MSDS Date: September 19, 2003



MATERIAL SAFETY DATA SHEET
UROEZE® Urinary Supplement Powder
Product Code: 854004

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

Product Name UROEZE® Urinary Supplement Powder
Product Description Urinary acidifier 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: June 15, 2011
Supersedes MSDS Dated: March 19, 2009

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

2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

May cause adverse gastrointestinal effects.
Keep out of reach of children.

Routes of Entry

Eye contact - Skin contact - Inhalation - Ingestion

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

Eye - Gastrointestinal Tract

Health Effects - Eyes

Contact may cause eye irritation.

Health Effects - Skin

Contact with skin is not expected to cause adverse effects.

Health Effects - Ingestion

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

Health Effects - Inhalation

Inhalation may irritate respiratory tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	Concentration
Ammonium Chloride	12125-02-9	55 - 65%

4. FIRST AID MEASURES

Eyes

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



MATERIAL SAFETY DATA SHEET
UROEZE® Urinary Supplement Powder
Product Code: 854004

4. FIRST AID MEASURES

Skin

Wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

Ingestion

Contact a physician immediately if ingested. Physician may call a poison control center for advice concerning human ingestion.

Inhalation

Not applicable

Advice to Physicians

Federal (U.S.A.) law restricts this drug to use by or on the order of a licensed veterinarian.

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

Sweep and dispose of small amounts in trash. Large amounts should be disposed of in a sanitary landfill.

7. HANDLING AND STORAGE

Store in original container at temperatures between 59°F and 86°F (15°C - 30° C). Keep out of sunlight. Keep away from children. Wash hands after dispensing and before eating, drinking or smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Ammonium Chloride (as fume)

ACGIH: TLV 10 mg/m³ 8h TWA 15 min STEL 20 mg/m³

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

Not required under normal conditions of use. Workers should wash hands before eating, drinking or smoking.

Eye Protection

Not required under normal conditions of use.

Body Protection

Normal work wear.



MATERIAL SAFETY DATA SHEET
UROEZE® Urinary Supplement Powder
Product Code: 854004

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid (powder)
Color	Brown/white mix
Odor	None
pH	Not applicable
Specific Gravity	No data available
Boiling Range/Point (°C/F)	Not applicable
Melting Point (°C/F)	Not applicable
Flash Point (PMCC) (°C/F)	Not flammable
Explosion Limits (%)	No data available
Vapor Pressure	Not applicable
Density	No data available
Solubility in Water	No data available
Vapor Density (Air = 1)	Not applicable

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Heat - high temperatures

Materials to Avoid

Strong acids - strong bases - strong oxidizing agents

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Oxides of carbon - hydrogen chloride - ammonia - nitrous oxides

11. TOXICOLOGICAL INFORMATION

See product insert and/or packaging for additional information.

Acute Toxicity

Ammonium Chloride: LD50 (rat) 1650 mg/kg

Specific Target Organ Systemic Toxicity (single and repeat)

No relevant studies identified.

Serious Eye damage/Eye Irritation

Ammonium Chloride: Eye irritation, rabbit

Skin Corrosion/Irritation

Ammonium Chloride:: No skin irritation, rabbit

Respiratory or Skin Sensitization

This product may cause a reaction in individuals with pork allergies.

This product contains glycerides and in rare cases glycerides may cause allergic reaction upon prolonged or repeated contact.

Ammonium Chloride: Not sensitizing to skin (guinea pig)

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

Ammonium Chloride: Negative Ames test with and without metabolic activation, Positive cytogenetic assay without metabolic activation



MATERIAL SAFETY DATA SHEET
UROEZE® Urinary Supplement Powder
Product Code: 854004

11. TOXICOLOGICAL INFORMATION

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

Ammonium Chloride: LC50 (rainbow trout) 3.98 mg/l 96 h

LC50 (daphnia magna) 161 mg/l 48hr

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 have not been verified for 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

D.2.B

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: Ammonium Chloride (12125-02-9).

PA Right To Know Law

This product contains the following chemicals on the Pennsylvania Hazardous Substance List: Ammonium Chloride (12125-02-9).

NJ Right To Know Law

This product contains the following chemicals on the New Jersey Workplace Hazardous Substance List: Ammonium Chloride (12125-02-9).

California Proposition 65

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

SARA Title III Sect. 311/312 Categorization

Immediate (acute)



MATERIAL SAFETY DATA SHEET
UROEZE® Urinary Supplement Powder
Product Code: 854004

15. REGULATORY INFORMATION

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: Ammonium Chloride (12125-02-9).

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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SAFETY DATA SHEET
UROEZE® 400
(Urinary Supplement Powder)

1. IDENTIFICATION

Product Name	UROEZE® 400 (Urinary Supplement Powder)
Recommended use of the chemical and restrictions on use	
Identified uses	Urinary acidifier for cats and dogs
Restrictions on Use	Federal law restricts this drug to use by or on the order of a licensed veterinarian.
Company Identification	Virbac AH, Inc. P.O. Box 162059 Fort Worth, Texas 76161 (800) 338-3659
Customer Information Number	
Emergency Telephone Number	
CHEMTREC Number	(800) 424-9300
Other Emergency Number:	Poison Control Center: 1-800-222-1222 (human) HOT LINE NUMBER: 1-800-345-4735 (human and pet)
Issue Date	September 18, 2015
Supersedes Date	June 15, 2011

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

Hazard Classification

Eye Damage/Irritation – Category 2A
Sensitization - Respiratory – Category 1

Label Elements

Hazard Symbols



Signal Word: Danger

Hazard Statements

Causes serious eye irritation.
May cause allergy or asthma or breathing difficulties if inhaled.

Precautionary Statements

Prevention

Wash hands thoroughly after handling.
Wear eye protection/face protection.
Avoid breathing dust.
In case of inadequate ventilation wear respiratory protection.



2. HAZARD IDENTIFICATION

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a poison center or doctor.

Storage

None

Disposal

Dispose of contents/container in accordance with local regulation.

Other Hazards

None

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity 30 - 40%

Acute dermal toxicity 30 - 40%

Acute inhalation toxicity 30 - 40%

Acute aquatic toxicity 30 - 40%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:

This product is a mixture.

Component Name	CAS Number	Concentration
Ammonium Chloride	12125-02-9	55 - 65%
Desiccated Beef Liver	NA	15 - 25%

4. FIRST - AID MEASURES

Description of necessary first-aid measures

Eyes

Immediately flood the eye with plenty of water, 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.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.



4. FIRST - AID MEASURES

Indication of immediate medical attention and special treatment needed

Notes to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards

This product is a powder and if significant amounts are suspended in air may pose an explosion risk during a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing.

Environmental Precautions

Prevent the material from entering drains or watercourses.

Methods and materials for containment and cleaning up

Sweep up and dispose of small amounts in trash. Large amounts should be disposed of in a sanitary landfill. Prevent the material from entering drains or watercourses.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate protective clothing. Wash hands thoroughly after handling.

Conditions for safe storage

Store in original container at controlled room temperature of 59° - 86° F (15°-30°C) away from children and pets.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Ammonium Chloride (as fume)

ACGIH: TLV 10 mg/m³ 8h TWA 15 min STEL 20 mg/m³

Appropriate engineering controls

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



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Individual protection measures

Respiratory Protection

Not required under normal conditions of use.

Skin Protection

Not required under normal conditions of use.

Eye/Face Protection

Safety glasses or goggles.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

	Physical State	Solid (powder)
	Color	Brown/white mix
Odor		None
Odor Threshold		No data available
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
Vapor Pressure		No data available
Evaporation Rate (BuAc=1)		No data available
Solubility in Water		No data available
Vapor Density (Air = 1)		No data available
VOC		No data available
Partition coefficient (n-octanol/water)		Not applicable
Viscosity		Not applicable
Auto-ignition Temperature		No data available
Decomposition Temperature		No data available
Upper explosive limit		No data available
Lower explosive limit		No data available
Flammability (solid, gas)		No data available

10. STABILITY AND REACTIVITY

Reactivity

Data is not available

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Heat - high temperatures



10. STABILITY AND REACTIVITY

Incompatible Materials

Strong oxidizers – strong acids – strong bases

Hazardous Decomposition Products

Oxides of carbon - hydrogen chloride - ammonia - nitrous oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ammonium Chloride:

LD50 Oral (rat) 1410mg/kg

Specific Target Organ Toxicity (STOT) – single exposure

Ammonium chloride: Available data indicates this ingredient is not expected to cause target organ effects after a single exposure.

Specific Target Organ Toxicity (STOT) – repeat exposure

Ammonium chloride: Available data indicates this ingredient is not expected to cause target organ effects after repeated exposure.

Serious Eye damage/Irritation

Ammonium chloride: Classified as irritating to eyes based on animal studies.

Skin Corrosion/Irritation

Ammonium chloride: Available data indicates this ingredient is not expected to cause skin irritation.

Respiratory or Skin Sensitization

Desiccated Beef Liver: May cause allergy or asthma or breathing difficulties if inhaled.

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

Ammonium chloride: Available data indicates this ingredient is not expected to be mutagenic.

Reproductive Toxicity

Ammonium chloride: Available data indicates this ingredient is not expected to cause reproductive toxicity or birth defects.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ammonium Chloride:

LC50 (Fathead minnow) 196 mg/l 96 h

LC50 (Daphnia magna) 101 mg/l 48hr



Mobility in soil

No relevant studies identified.

12. ECOLOGICAL INFORMATION

Persistence/Degradability

No relevant studies identified.

Bioaccumulative Potential

No relevant studies identified.

Other adverse effects

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

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

14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

United States TSCA Inventory

This product is a drug and therefore is not regulated under the US EPA Toxic Substance Control Act.

Canada DSL Inventory

This product is a drug and therefore is not regulated under the Canadian Environmental Protection Act.

California Proposition 65

This product does not contain any materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 311/312 Categorization

Immediate (acute) Health Hazard

SARA Title III Sect. 313

This product contains a chemical that is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: Ammonium Chloride



16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists
BOD: Biological Oxygen Demand
CAS#: Chemical Abstracts Service Number
ECHA: European Chemicals Agency
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

Legend

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

Revision Date: September 18, 2015
Replaces: June 15, 2011
Changes made: Update to GHS.

Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

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