SAFETY DATA SHEETS

This SDS packet was issued with item:

078923279

N/A

MATERIAL SAFETY DATA SHEET BRONCO EQUINE FLY SPRAY PLUS

CITRONELLA SCENT

Printed: 10/06/2011 Revision: 10/06/2011

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Supercedes Revision: 05/18/2010

1. Product and Company Identification

Product Code: 270-294-A

Product Name: BRONCO EQUINE FLY SPRAY PLUS CITRONELLA SCENT

Manufacturer Information

Company Name: Distributed by:

Farnam Companies, Inc. 301 West Osborn Road

Phoenix, AZ

Emergency Contact: Animal or human exposure (800)234-2269

Alternate Emergency Contact: CHEMTREC (Emergency spills) (800)424-9300

Information: Farnam Companies (800)234-2269

Chemical Family: compound

Additional Identity Information

1 qt 14810 1 gal 14805

2. Composition/Information on Ingredients

Ha	zardous Components (Chemical Name)	CAS#	Concentration	OSHA PEL	ACGIH TLV
1.	Pyrethrins and Pyrethroids	8003-34-7	0.05 %	No data.	No data.
2.	Piperonyl butoxide	51-03-6	0.5 %	No data.	No data.
3.	Permethrin	52645-53-1	0.1 %	No data.	No data.

3. Hazards Identification

Emergency Overview

KEEP OUT OF REACH OF CHILDREN

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes

Potential Health Effects (Acute and Chronic)

No data available.

LD 50 / LC 50

oral>5g/kg; dermal>2g/kg; LC50 >3.55mg/l

Signs and Symptoms Of Exposure

None known

Medical Conditions Generally Aggravated By Exposure

None known

4. First Aid Measures

Emergency and First Aid Procedures

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for treatment advice.

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5.	Fire	Fial	ntina	ı Mea	sures

> 200.00 FFlash Pt:

LEL: No data. UEL: No data. **Explosive Limits:**

Autoignition Pt: NA

Fire Fighting Instructions

None

Flammable Properties and Hazards

None known

Hazardous Combustion Products

None known

Extinguishing Media

No data available.

Unsuitable Extinguishing Media

None known

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Soak up with absorbent material such as sand or sawdust and discard with chemical waste.

7. Handling and Storage

Precautions To Be Taken in Handling

Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. Harmful if swallowed.

Precautions To Be Taken in Storing

Store in a cool, dry place. Do not store near heat or open flame.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

none usually

Eye Protection

none

Protective Gloves

none

Other Protective Clothing

Engineering Controls (Ventilation etc.)

Local Exhaust: sufficient

Special:

Mechanical (Gen):

Other:

Work/Hygienic/Maintenance Practices

Wash hands before eating, smoking or using restroom.

9. Physical and Chemical Properties

[X]Liquid **Physical States:** [] Gas

No data. **Melting Point:** 100.00 C **Boiling Point:**

Autoignition Pt: NA

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Flash Pt: > 200.00 F

Specific Gravity (Water = 1): 1.002 at 25.0 C

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: No data.

Solubility Notes

soluble

Percent Volatile: No data.
pH: 7.0

Appearance and Odor

Light amber to clear, slight oily with citronella scent.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

No data available.

Hazardous Decomposition Or Byproducts

None known

Hazardous Polymerization: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization

No data available.

11. Toxicological Information

Not available

Chronic Toxicological Effects

No data available.

На	azardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
1.	Pyrethrins and Pyrethroids	8003-34-7	n.a.	n.a.	A4	n.a.
2.	Piperonyl butoxide	51-03-6	n.a.	n.a.	n.a.	n.a.
3.	Permethrin	52645-53-1	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

This product is extremely toxic to fish. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

13. Disposal Considerations

Waste Disposal Method

If empty: Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not regulated as hazardous by U.S. DOT.

DOT Hazard Label: None

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Additional Transport Information

No data available.

15. Regulatory Information

No data available.

16. Other Information

Company Policy or Disclaimer

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification.

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name • Broncoe Equine Fly Spray Plus Citronella Scent

Synonyms • 100502327; 100502328; EPA Reg. No.: 270-329

Product Description • Clear colorless liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Insecticide.

• Avoid contact with skin and eyes. Keep out of reach of children and pets.

Details of the supplier of the safety data sheet

Manufacturer • Farnam Companies, Inc.

1501 E. Woodfield Road, Suite 200W

Schaumburg, IL 60173

United States

www.farnam.com

Emergency telephone number

Manufacturer • 1-800-234-2269

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside the US collect calls accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Skin Sensitization 1

Label elements
OSHA HCS 2012

WARNING



Hazard statements • May cause an allergic skin reaction

Precautionary statements

Prevention • Avoid breathing dust, fume, gas, mist, vapors and/or spray.

Contaminated work clothing should not be allowed out of the workplace.

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Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460

Wear protective gloves.

Response • IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Other hazards
OSHA HCS 2012

This product is extremely toxic to aquatic organisms, including fish and invertebrates. This product is extremely toxic to bees exposed to direct treatment on blooming crops or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is not considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

· Material does not meet the criteria of a substance.

Mixtures

Composition						
Chemical Name Identifiers %						
Prallethrin	CAS:23031-36-9	0.033%				
Permethrin	CAS:52645-53-1	0.1%				
Piperonyl butoxide	CAS:51-03-6	0.5%				
Other ingredients	NDA	Balance				

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms persist.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye

IF IN EYES: Rinse with water for several minutes. Get medical attention if symptoms occur.

Ingestion

IF SWALLOWED: Do not induce vomiting unless told to by a poison control center or doctor. Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

An allergic skin reaction may occur in individuals with a sensitivity to piperonyl

Preparation Date: 23/August/2016 Revision Date: 23/August/2016 Format: GHS Language: English (US) OSHA HCS 2012 butoxide. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

· Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing

None known.

Media

Special hazards arising from the substance or mixture

Unusual Fire and Explosion

· None known.

Hazards

Hazardous Combustion

None known.

Products

Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use appropriate Personal Protective Equipment (PPE). Ventilate enclosed areas.

Wash thoroughly with soap and water after handling.

Emergency Procedures

Ventilate closed spaces before entering. Avoid release into the environment.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

· Stop leak if you can do it without risk.

SMALL SPILLS: Take up with sand or other non-combustible absorbent material and

place into containers for later disposal.

LARGE SPILLS: Dike far ahead of spill for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Use good safety and industrial hygiene practices. Avoid contact with skin or eyes.

Conditions for safe storage, including any incompatibilities

Storage

•

Keep this product in its tightly closed original container, when not in use. Store in a cool, dry area that is inaccessible to children and pets. Protect from freezing or high temperatures.

Section 8 - Exposure Controls/Personal Protection

Control parameters

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Exposure controls

Engineering

Measures/Controls

No data available.

Personal Protective Equipment

Pictograms



Respiratory
Not required with normal use.
Hands
Not required with normal use.
Wear protective gloves.

Skin/Body

It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

Environmental Exposure Controls

· Avoid release to the environment.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Clear colorless liquid.
Color Colorless		Odor	Sweet citrus.
Odor Threshold	No data available		
General Properties	-		-
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	рН	8.2
Specific Gravity/Relative Density	= 1.001 @ 20 °C(68 °F) Water=1	Water Solubility	No data available
Viscosity	< 10 Centipoise (cPs, cP) or mPas @ 25 °C(77 °F)		
Volatility	•	•	•
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability	•	•	-
Flash Point	> 200 °C(> 392 °F) TCC (Tagliabue Closed Cup)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Not Flammable.		
Environmental	-	-	-
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

· No dangerous reaction known under conditions of normal use.

Chemical stability

· Stable under normal temperatures and pressures.

Possibility of hazardous reactions

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Conditions to avoid

No data available.

Incompatible materials

· No data available.

Hazardous decomposition products

No data available.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Broncoe Equine Fly Spray Plus Citronella Scent	NDA	Irritation: Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Essentially non-irritating

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Skin Sensitizer 1
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Route(s) of entry/exposure Potential Health Effects Inhalation

· Inhalation, Ingestion, Eyes, and Skin

Acute (Immediate)

· Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

No data available.

Skin

Acute (Immediate)

May cause an allergic reaction in individuals with a sensitivity to piperonyl butoxide.

Chronic (Delayed)

· No data available

Eye

Acute (Immediate)

• Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

· No data available.

Ingestion

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Acute (Immediate) Chronic (Delayed)

- · Under normal conditions of use, no health effects are expected.
- No data available.

Mutagenic Effects

Prallethrin is not a mutagen. Permethrin was not mutagenic in a battery of in vitro and in vivo tests. Piperonyl butoxide was not mutagenic in a battery of tests.

Carcinogenic Effects

Prallethrin is not classified as carcinogen by NTP, IARC and OSHA. Permethrin is not classified as carcinogen by NTP, IARC and OSHA. Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA. No other components present at 0.1% or greater are listed by IARC, OSHA or NTP.

Reproductive Effects

Prallethin is not a reproductive toxicant. Permethrin does not cause developmental or reproductive effects. Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits.

Section 12 - Ecological Information

Toxicity

	Components						
Prallethrin (0.033%)	23031-36-9	Aquatic Toxicity-Fish: 96 Hour(s) LC50 Rainbow Trout 0.012 mg/L [Acute] 96 Hour(s) LC50 Blue Gill 0.022 mg/L [Acute] 96 Hour(s) LC50 Sheepshead Minnow 0.026 mg/L [Acute] NOEC Rainbow Trout 0.003 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC Daphnia magna 0.00065 mg/L [Chronic] 48 Hour(s) LC50 Daphnia magna 0.0062 mg/L [Acute]					
Permethrin (0.1%)	52645-53-1	Aquatic Toxicity-Fish: 96 Hour(s) LC50 Blue gill 0.00079 mg/L [Acute] 96 Hour(s) LC50 Atlantic silverside 0.0022 mg/L [Acute] NOEC Fathead minnow 0.0003 mg/L [Chronic] NOEC Sheepshead minnow 0.00083 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC Daphnia magna 0.000039 mg/L [Chronic] NOEC Mysid shrimp 0.000011 mg/L [Chronic] LC50 Hexagenia bilineuta 0.0001 mg/L [Acute] 96 Hour(s) LC50 Mysid shrimp 0.000019 mg/L [Acute]					
Piperonyl butoxide (0.5%)	51-03-6	Aquatic Toxicity-Fish: LC50 Rainbow Trout 1.9 mg/L [Acute] LC50 Sheephead minnow 3.94 mg/L [Acute] NOEC Fathead minnow 0.04 mg/L [Chronic] Aquatic Toxicity-Crustacea: LC50 Gammarus fasciatus (amphipod) 0.51 mg/L [Acute] LC50 Mysid shrimp 0.49 mg/L [Acute] NOEC Daphnia magna 0.03 mg/L [Chronic]					

Persistence and degradability

Permethrin: not rapidly biodegradable.

Bioaccumulative potential

• Permethrin: Bioconcentration factor (BCF) 300; Does not bioaccumulate.

Mobility in Soil

· Permethrin: Immobile in soil.

Other adverse effects

Potential Environmental Effects

This product is extremely toxic to fish and aquatic invertebrates and extremely toxic to bees exposed to direct treatment or to residues on crop or weeds.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not empty into drains.

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

	UN UN proper shipping name number		Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	DG UN3082 Packaging > 5L: Environmentally Hazardous Substance, Liquid, n.o.s. (Permethrin)		9	=	Marine Pollutant
IATA/ICAO UN3082 Packaging > 5L: Environmentally Hazardous Substance, Liquid, n.o.s. (Permethrin)		9	III	Acute Aquatic Toxicity	

Special precautions for user • None known.

Transport in bulk according to Annex II of MARPOL 73/78 Not relevant.

and the IBC Code Other information

IMO/IMDG • No data available

IATA/ICAO · No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • SARA Title III Section 313, Acute

FIFRA – Pesticide Labeling

This material is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of nonpesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Environmental Hazards •

This product is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters. Applying this product in

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calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. This pesticide is extremely toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.

	Inventory						
Component	CAS	TSCA					
Permethrin	52645-53-1	No					
Prallethrin	23031-36-9	No					
Piperonyl butoxide	51-03-6	Yes					

United States

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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Permethrin
 Prallethrin
 Piperonyl butoxide
 Piperonyl butoxide
 1.0 % de minimis concentration
 Not Listed
 1.0 % de minimis concentration
 1.0 % de minimis concentration

Section 16 - Other Information

Revision Date

Last Revision Date

Preparation Date

Disclaimer/Statement of

Liability

23/August/2016

23/August/2016

25/August/2010

23/August/2016

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.